dissolved test substance concentration shall be measured at 0, 48, and 96 hours.

(2) Test procedures. The test shall be performed under flow-through conditions.

(ii) Reporting requirements. The Gammarid acute toxicity test shall be completed and the final report submitted to EPA within 9 months of the effective date of the final rule.

(5) Daphnid chronic toxicity—(i) Required testing. (A) Daphnid chronic toxicity testing shall be conducted with TBP using Daphnia magna or D. pulex in accordance with § 797.1330 of this chapter, if the algal EC50, the rainbow trout LC50, the daphnid EC50, or the gammarid LC50 determined in accordance with paragraphs (d)(1), (2), (3) and (4) of this section satisfy the following criteria: Any such value is ≤ 1 mg/L; or any fish or aquatic invertebrate EC50 or LC50 is ≤ 100 mg/L and either the rainbow trout or gammarid 24-hour to 96-hour LC50 ratio ≥ 2, or the daphnid 24-hour to 48-hour EC50 or LC50 ratio is ≥ 2.

(B) For the purpose of this section, the following provisions also apply:

- (1) Chemical measurement. The total and dissolved (e.g., filtered) concentrations of the test substance shall be measured in each test chamber and the delivery chamber before the test. If the dissolved test substance concentration is greater than 80 percent of total test substance concentration. then only total or dissolved test substance concentration shall be measured in each test chamber at 0, 7, 14, and 21 days. If the dissolved test substance concentration is less than or equal to 80 percent of total test substance concentration, then total and dissovled test substance concentration shall be measured at 0, 7, 14, and 21
- (2) Test procedures. The test shall be performed under flow-through conditions.
- (ii) Reporting requirements. (A) The daphnid chronic toxicity test, if required, shall be completed and the final report submitted to EPA within 21 months of the effective date of the final rule.

(B) An interim progress report shall be submitted to EPA 6 months after the initiation of the test.

(6) Fish early-life stage toxicity—(i) Required testing. A fish early-life stage toxicity test shall be conducted with TBP in accordance with § 797.1600 of this chapter, using the fish with the lower LC50 value (either the rainbow trout (Salmo gairdneri) or the fathead minnow (Pimephales promelas)), if the algal EC50, the rainbow trout LC50, the gammarid LC50 or the daphnid EC50

determined in accordance with paragraphs (d)(1), (2), (3), and (4) of this section satisfy the following criteria: Any such value is < 1 mg/L; or any fish or aquatic invertebrate EC50 or LC50 is < 100 mg/L and either the rainbow trout or gammarid 24 hour to 96 hour LC50 ratio > 2, or the daphnid 24-hour to 48-hour EC50 ratio is > 2.

- (ii) Reporting requirements. (A) The fish early-life stage flow-through toxicity test shall be completed and the final report submitted to EPA within 21 months of the effective date of the final rule.
- (B) An interim progress report shall be submitted to EPA 6 months after the initiation of the test.
- (7) Benthic sediment invertebrate bioassay-(i) Required testing. (A) A benthic sediment invertebrate bioassay shall be conducted on TBP with the midge (Chironomus tentans) if chronic toxicity testing is required pursuant to paragraph (d)(5) of this section and if the log Koc calculated according to paragraph (e)(2)(B)(1) of this section is greater than or equal to 3.5 but less than or equal to 6.5. The total aqueous sediment concentrations and interstitial water concentrations of the test substance shall be measured in each test chamber at 0, 4, 7, 10, and 14 days. The aqueous concentrations of the test substance in the delivery chamber shall be measured at 0, 4, 7, 10, and 14 days. TBP-spiked clean freshwater sediments containing low, medium, and high organic carbon content shall be used.
- (B) The benthic sediment invertebrate bioassay shall be conducted according to the test procedure specified in the American Society for Testing and Materials, Special Technical Publication 854 (ASTM STP 854) entitled, "Aquatic Safety Assessment of Chemicals Sorbed to Sediments," by W.J. Adams, R.A. Kimerle, and R.G. Mosher, published in Aquatic Toxicity and Hazard Assessment: Seventh Symposium, ASTM STP 854, pp. 429-453, R.D. Caldwell, R. Purdy, and R.C. Bahner, Eds., 1985 which is incorporated by reference. This published procedure is available for public inspection at the Office of Federal Register, Room 8301, 1100 L St., NW., Washington, DC 20408, and copies may be obtained from the EPA TSCA Public Docket Office in Rm. G-004, NE Mall, 401 M St., SW., Washington, DC 20460, This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 522(a) and 1 CFR part 51. The method is incorporated as it exists on the effective date of this rule and a notice of any

change to the method will be published in the Federal Register.

(ii) Reporting requirements. (A) The benthic sediment invertebrate bioassay, if required, shall be completed and the final report submitted to EPA within 21 months of the effective date of the final rule.

(B) An interim progress report shall be submitted to EPA for the benthic sediment invertebrate bioassy 6 months after the initiation of the test.

(e) Chemical fate testing—(1) Vapor pressure—(i) Required testing. Vapor pressure testing shall be conducted with TBP in accordance with § 796.1950 of this chapter.

(ii) Reporting requirements. The vapor pressure test required in paragraph (d)(1) of this section shall be completed and the final report submitted to EPA within 6 months of the effective date of the final rule.

(2) Sediment and soil adsorption isotherm—(i) Required testing. Sediment and soil absorption isotherm testing shall be conducted with TBP in accordance with § 796.2750 of this chapter and EPA will provide two soil and two sediment samples.

(ii) Reporting requirements. (A) The sediment and soil absorption isotherm test required under paragraph (d)(2) of this section shall be completed and the final report submitted to EPA within 6 months of the effective date of the final rule

(B) For the purpose of this section, the following provisions also apply:

(1) A Koc value shall be calculated for each test sediment using the equation Koc=K/ (percent of organic carbon in test sediment).

(2) [Reserved]

(3) Hydrolysis as a function of pH at 25°C—(i) Required testing. Hydrolysis testing shall be completed with TBP in accordance with § 796.3500 of this chapter.

(ii) Reporting requirements. The hydrolysis test required under paragraph (e)(3) of this section shall be completed and the final report submitted to EPA within 6 months of the effective date of the final rule.

(f) Effective date. (1) The effective date of the final rule is September 27, 1989.

(2) The guidelines and other test methods cited in this section are referenced here as they exist on September 27, 1989.

(Information collection requirements have been approved by the Office of Management and Budget under Control Number 2070– 0033.)

[FR Doc. 89–18850 Filed 8–11–89; 8:45 am]

County of the Parish of State of State



Monday August 14, 1989



Environmental Protection Agency

40 CFR Parts 116, 117, and 302
Reportable Quantity Adjustments;
Delisting of Ammonium Thiosulfate; Final
Rules



ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 302

[SW H-FRL 3281-8]

Reportable Quantity Adjustments

AGENCY: U.S. Environmental Protection Agency (EPA). ACTION: Final rule.

SUMMARY: Sections 103(a) and (b) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended, require that persons in charge of vessels or facilities from which hazardous substances have been released in quantities that are equal to or greater than their reportable quantities (RQs) immediately notify the National Response Center of the release. Section 102(b) sets an RQ of one pound for hazardous substances, except those substances for which different RQs have been established pursuant to section 311(b)(4) of the Clean Water Act (CWA). In addition to these reporting requirements section 304 of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires that releases of hazardous substances in quantities equal to or greater than their RQs (or one pound if a reporting trigger is not established by regulation) be reported to State and local authorities.

Section 102(a) of CERCLA authorizes the U.S. Environmental Protection Agency (EPA or "the Agency") to adjust RQs for hazardous substances and to designate as hazardous substances those substances that, when released into the environment, may present substantial danger to the public health or welfare or the environment. Currently there are 725 CERCLA hazardous substances. In this rulemaking, EPA is

1 EPA proposed RQ adjustments for the hazardous substances whose RQs are promulgated in this final rule on March 16, 1987. As of that date, there were 717 CERCLA hazardous substances. Changes to the list of CERCLA hazardous substances since March 16, 1987 are described below. Four hazardous waste streams (K123, K124, K125, and K126) were added in a final rule (51 FR 37725) that became effective on April 24, 1987 bringing the total number of CERCLA hazardous substances to 721. EPA removed iron dextran and strontium sulfide from the list in two final rules (53 FR 43878 and 53 FR 43881) effective October 31, 1988, thus reducing the number of CERCLA hazardous substances to 719. Six hazardous substances (waste streams K064, K065, K066, K088, K090, and K091) were added to the CERCLA list in a final rule (53 FR 35412) that became effective or March 13, 1989, increasing the number of CERCLA

promulgating the RQ adjustments for six of the 273 hazardous substances whose RQs were proposed to be adjusted in a March 16, 1987 Notice of Proposed Rulemaking (NPRM). These six substances are: 1,4-dioxane, 2ethoxyethanol, ethylene oxide, 2nitropropane, perchloroethylene, and saccharin. By making the adjustments contained in this rulemaking, the Agency will be able to focus its resources on those releases which are most likely to pose potential threats to public health or welfare or the environment. In addition, by making these adjustments, EPA will relieve the regulated community of the burden of reporting releases which are unlikely to pose such threats.

EFFECTIVE DATE: August 14, 1989.

ADDRESSES: The toll-free telephone number of the National Response Center is 1-800/424-8802; in the Washington, DC metropolitan area the number is 1-202/267-2675.

Docket: Copies of materials relevant to this rulemaking are contained in Room M2427 at the U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460 (Docket Number 102 RQ-273C). The docket is available for inspection between the hours of 9:00 a.m. and 4:00 p.m. Monday through Friday, excluding Federal holidays. To review docket materials, you may make an appointment by calling 1-202/382-3046. The public may copy a maximum of 50 pages from any regulatory docket at no cost. Additional copies cost \$.20 per page.

FOR FURTHER INFORMATION CONTACT: Ivette O. Vega, Response Standards and Criteria Branch, Emergency Response Division, U.S. Environmental Protection Agency (OS–210), 401 M Street, SW, Washington, DC 20460, or the RCRA/Superfund Hotline at 1–800/424–9346; in the Washington, DC metropolitan area at 1–202/382–3000.

SUPPLEMENTARY INFORMATION: The contents of today's preamble are listed in the following outline:

- I. Introduction
- A. Statutory Authority
- B. Background of this Rulemaking
- II. Reportable Quantity Adjustments
 A. Introduction

hazardous substances to 725, which is the current total. Lastly, based on a final rule published elsewhere in today's Federal Register, ammonium thiosulfate will be removed from the CERCLA list 60 days from today's date, thus reducing the number of CERCLA hazardous substances to 724:

- B. Reportable Quantity Adjustment Methodology
 - 1. Summary of the Methodology
 - 2. Responses to Comments Received on the Methodology
 - a. Carcinogen Hazard Ranking Methodology and the 100-Pound Maximum RO
 - b. Use of NTP and IARC Determina-
 - c. Application of EPA's Carcinogen Assessment Guidelines
- C. Substances for Which RQs Are Adjusted
- 1. Summary
- 2. Response to Comments
- III. Summary of Supporting Analyses
 - A. Executive Order No. 12291
 - B. Regulatory Flexibility Act
- C. Paperwork Reduction Act List of Subjects

I. Introduction

A. Statutory Authority

Section 102(b) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (Pub. L. 96-510), 42 U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) (Pub. L. 99-499), establishes reportable quantities (RQs) of one pound for releases of hazardous substances. except for hazardous substances whose RQs were established at a different level pursuant to section 311 of the CWA. Section 102(a) of CERCLA authorizes EPA to adjust all of these RQs by regulation.

Sections 103(a) and (b) of CERCLA require that the person in charge of a vessel or facility notify the National Response Center immediately when there is a release of a hazardous substance in an amount equal to or greater than the RQ for that substance. This notification requirement serves as a trigger for informing the government of a release so that Federal personnel can evaluate the need for a Federal removal or remedial action and undertake any necessary action in a timely fashion. Under section 104 of CERCLA, the Federal government may respond whenever there is a release or substantial threat of a release of a hazardous substance into the environment. Responses are to be taken, to the extent practicable, in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300), which was originally developed under the CWA and which has been revised to reflect the responsibilities and authority created by CERCLA.

If a release meets certain statutory criteria set out in CERCLA section 103(f)(2), the release may be subject to more limited reporting requirements. Specifically, a release is subject to these limited requirements if the release: (1) Is continuous and stable in quantity and rate, and is from a facility for which notification has been given under CERCLA section 103(c), or (2) is a release for which notification has been given under CERCLA sections 103(a) and (b) for a period sufficient to establish continuity, quantity, and regularity of the release. Notification must still be given annually and when there is a statistically significant increase in the release. In addition, CERCLA section 103 provides a reporting exemption for federally permitted releases. The definition of federally permitted release in CERCLA section 101(10) specifically identifies releases permitted under certain other Federal or State programs. Several commenters claimed that their particular releases are subject to continuous and/ or federally permitted release treatment. EPA published proposed regulations to clarify the reduced reporting requirement for continuous releases on April 19, 1988 (53 FR 12868). EPA also clarified the reporting exemption for federally permitted releases in proposed regulations published on July 19, 1988 (53 FR 27268). Comments on continuous and federally permitted release issues submitted in response to the March 16, 1987 NPRM will be addressed in the upcoming final rules for continuous and federally permitted releases.

In addition to the reporting requirements established by CERCLA. section 304 of SARA Title III requires the owners and operators of certain facilities to report releases of CERCLA hazardous substances to State and local authorities. SARA Title III section 304 notification must be given immediately after the release of an RQ or more (one pound or more if a reporting trigger is not established by regulation) to the community emergency coordinator for each local emergency planning committee for any area likely to be affected by the release, and to the State emergency response commission of any State likely to be affected by the release. These notification requirements apply only to releases that have potential for off-site exposure and that are from facilities at which a "hazardous chemical" (defined by regulations under the Occupational Safety and Health Act of 1970 (29 CFR 1910.1200(c)) and section 311 of SARA Title III) is produced, used, or stored.

Section 109 of CERCLA and section 325 of SARA Title III authorize EPA to assess civil penalties for failure to report releases of hazardous substances that equal or exceed their RQs. Section 103 of CERCLA, as amended, authorizes EPA to seek criminal penalties for submitting false or misleading information in a notification made pursuant to CERCLA section 103, and increases the maximum penalties and years of imprisonment for violation of the CERCLA section 103 reporting requirement.

B. Background of This Rulemaking

On May 25, 1983, EPA proposed a rule (48 FR 23552) to clarify procedures for reporting releases of CERCLA hazardous substances and to adjust RQs for 387 of the then 696 hazardous substances.2 In the May 25, 1983 Notice of Proposed Rulemaking (NPRM) EPA also compiled for the first time the list of "hazardous substances" defined under section 101(14) of CERCLA. In the preamble to that NPRM, EPA discussed in detail the CERCLA notification provisions, the methodology and criteria used to adjust the RQ levels, and the RQ adjustments proposed under section 102 of CERCLA and under section 311 of the CWA. EPA promulgated final RQ adjustments for 340 hazardous substances in an April 4, 1985 final rule (50 FR 13456) and for an additional 102 substances in a September 29, 1986 final rule (51 FR 34534). In an NPRM published on March 16, 1987 (52 FR 8140), EPA proposed RQ adjustments for 273 hazardous substances. The March 16, 1987 Federal Register also contained an NPRM in which EPA proposed RQ adjustments for radionuclides.3 In addition, in an NPRM published on March 2, 1988 (53 FR 6762), EPA reproposed RQ adjustments for lead metal and four lead compounds, and proposed to delist ammonium thiosulfate as a CERCLA hazardous substance.

This rulemaking finalizes the RQ adjustments for six of the 273 hazardous substances whose RQs were proposed for adjustment in the March 16, 1987 NPRM. This rule contains EPA's responses to all issues raised by the commenters relating to the RQ adjustment methodology for potential carcinogenicity, except those methodology issues not relevant to the six RQ adjustments promulgated in this final rule (for further discussion, see Section II.B.2 of this preamble). This rule also contains responses to public comments received on the specific RO adjustments for the hazardous substances in this rulemaking. Comments were received on the proposed RQ adjustments for only three hazardous substances (1,4-dioxane, perchloroethylene, and saccharin) of the six hazardous substances for which RQ adjustments are promulgated in this

RQ adjustments for 258 hazardous substances, including 254 of the 273 hazardous substances whose RQs were proposed for adjustment in the March 16, 1987 NPRM, are contained in a final rule published elsewhere in today's Federal Register. As explained in Section II.C.2.i of the preamble to the other final RQ adjustment rule published in today's Federal Register, EPA will address the RQs for the remaining 13 substances of the 273 substances that were the subject of the March 16, 1987 NPRM in a future action.

Section 306(a) of CERCLA, as amended by SARA section 202, requires the U.S. Department of Transportation (DOT) to list and regulate CERCLA hazardous substances as hazardous materials under the Hazardous Materials Transportation Act. Pursuant to this requirement, DOT promulgated on November 21, 1986, a final rule (51 FR 42174) providing that, when a hazardous substance is shipped in a quantity equal to or greater than its RQ, it must be identified as such in shipping papers and by package markings. This rule became effective on July 1, 1987 (51 FR 46672). The rule requires shippers of hazardous substances in quantities at or above their RQs to place the notation "RQ" and the name of the substance on shipping papers and package markings.

RQs for many of the hazardous substances proposed for adjustment in the March 16, 1987 NPRM (including the six substances whose adjusted RQs are being promulgated today) were proposed to be adjusted upward from their statutory RQs. The estimated production volume for the six hazardous substances whose adjusted RQs are being promulgated today is 4.6 billion

^{*} Since the May 25, 1983 NPRM, 31 substances have been added and two substances have been deleted from the CERCLA list, bringing the total number of CERCLA hazardous substances to 725. The 31 substances added to the list are: waste stream F024 [49 FR 5308]: coke oven emissions (49 FR 36560); waste streams F029, P021, P022, P023, F026, F027, and F028 [50 FR 1978]; waste streams K111, K112, K113, K114, K115, and K116, o-toluidine and p-toluidine (50 FR 42936); waste streams K117, K116, and K136 [51 FR 5327]; 2-ethoxyethanol (51 FR 6537); waste streams K123, K124, K125, and K126 [51 FR 37725]; and waste streams K129, K126, K125, and K126 [51 FR 37725]; and waste streams K129. The two substances deleted from the list are: iron dextren [53 FR 43878] and strontium sulfide [53 FR 43881].

⁸ RQ adjustments for radionuclides were promulgated in a final rule published on May 24, 1989 (54 FR 22524).

pounds annually. Because this amount represents a relatively large proportion of the total production volume of all 273 hazardous substances proposed for RQ adjustment in the March 16, 1987 NPRM, many shippers would be subject to a regulatory burden that is not justified by the hazards that these substances pose to human health and the environment. Once final RO adjustments are promulgated for these six hazardous substances, shippers of less than the adjusted RQ of a substance will not be subject to DOT regulations relating to shipping papers and package markings. Accordingly, EPA is expediting the promulgation of a final rule adjusting RQs for these substances by making this rule effective immediately upon promulgation. Because this rule "grants or recognizes an exemption or relieves a restriction" under section 553(d)(1) of the Administrative Procedure Act (APA), the APA requirement that final rules become effective no less than 30 days after publication does not apply.

In finalizing these RQ adjustments, this rule amends Table 302.4 of 40 CFR Part 302. Section II of this preamble discusses the RQ adjustments promulgated in this rulemaking and the methodology used in making these adjustments. Section II also includes EPA's responses to public comments on the March 16, 1987 NPRM that are relevant to the six RQ adjustments made in this rule and to the RQ adjustment methodology on which these six adjustments are based. Section III provides a summary of the analyses supporting this rulemaking.

II. Reportable Quantity Adjustments

A. Introduction

In this rulemaking, the Agency adjusts RQs based upon specific scientific and technical criteria that relate to the possibility of harm from the release of a hazardous substance at certain levels. The quantity released is but one factor considered by the government when assessing the need to respond to such a release. Other factors, assessed on a case-by-case basis, include but are not limited to: (1) The location of the release; (2) its proximity to drinking water supplies or other valuable resources; and (3) the likelihood of exposure or injury to nearby populations. The RQ adjustments made today will enable the Agency to focus its resources on those releases that are most likely to pose potential threats to public health or welfare or the environment. These adjustments will also relieve the regulated community and emergency response personnel from the burden of making and responding to

reports of releases that are unlikely to pose such threats.

In this final rule, the Agency is adjusting RQs for 1,4-dioxane, 2ethoxyethanol, ethylene oxide, 2nitropropane, perchloroethylene, and saccharin. With the exception of 2ethoxyethanol (which was not identified as a potential carcinogen under the identification methodology discussed in Section II.B. below), all of these hazardous substances have been evaluated for potential carcinogenicity as well as other primary criteria. The final RO adjustments promulgated today are based on the results of this evaluation. In the case of 2ethoxyethanol, its final RQ adjustment is based on the primary criterion of chronic toxicity (see the discussion below).

B. Reportable Quantity Adjustment Methodology

1. Summary of the Methodology

The Agency has wide discretion in adjusting the statutory RQs for hazardous substances under CERCLA. Administrative feasibility and practicality are important considerations. The Agency's methodology for adjusting RQs begins with an evaluation of the intrinsic physical, chemical, and toxicological properties of each hazardous substance. The intrinsic properties examinedcalled "primary criteria"-are aquatic toxicity, mammalian toxicity (oral, dermal, and inhalation), ignitability, reactivity, chronic toxicity,4 and potential carcinogenicity.

The Agency ranks hazardous substances for each intrinsic property (except potential carcinogenicity) on a five-tier scale, associating a specific range of values on each scale with a particular RQ value. This five-tier scale uses the five RQ levels of one, 10, 100, 1000, and 5000 pounds, originally established pursuant to CWA section 311 (see 40 CFR 117 and 44 FR 50776). For hazardous substances evaluated for potential carcinogenicity, each substance is assigned a hazard ranking of "high," "medium," or "low." These hazard rankings correspond to RQ levels

of one, 10, and 100 pounds, respectively (see below). Each hazardous substance evaluated under the various primary criteria is assigned several tentative RQ values based on its particular properties as data allow. The lowest of the tentative RQs becomes the "primary criteria RQ" for that substance. After the primary criteria RQs are assigned, substances are further evaluated for their susceptibility to certain degradative processes, which are used as secondary adjustment criteria. These natural degradative processes are biodegradation, hydrolysis, and photolysis (BHP). For further discussion of BHP, see Section II.B.2.a of the preamble to the final rule in which EPA promulgates RQ adjustments for 258 hazardous substances, published elsewhere in today's Federal Register.

If a hazardous substance, when released into the environment, degrades relatively rapidly to a less hazardous form by one or more of the BHP processes,6 its RQ (as determined by the primary RQ adjustment criteria) is raised one level. This adjustment is made because the relative potential for harm to public health or welfare or the environment posed by the release of such a substance is reduced by these degradative processes. Conversely, if a hazardous substance degrades to a more hazardous product after its release, the original substance is assigned an RQ equal to the RQ for the more hazardous substance, which may be one or more levels lower than the RQ for the original substance. The downward adjustment is appropriate because the hazard posed by the release of the original substance is increased as a result of BHP.

To identify those CERCLA hazardous substances that may be potential carcinogens, EPA reviewed four sources of human epidemiologic and/or animal bioassay data on hazardous substances that suggest possible carcinogenic effect. These sources are: (1) The Annual Reports on Carcinogens of the National Toxicology Program (NTP), U.S. Department of Health and Human Services; (2) the Monographs of the International Agency for Research on Cancer (IARC); (3) final Agency determinations published in the Federal Register identifying substances as potential carcinogens; and (4) ongoing determinations by the Agency's Office of Health and Environmental

^{*} EPA is aware that some chronic effects result from acute (short-term) exposures and considers such data in the chronic toxicity evaluations. The Agency is further evaluating data on chronic effects resulting from acute exposures to ensure that such data receive adequate consideration in the RQ adjustment process.

⁸ All of the RQs promulgated in this rulemaking are subject to the Agency's review of the most recent systemic (i.e., relating to a particular organ system) toxicity data. These RQs will be revised, if necessary, in a future rulemaking based on the results of this review.

⁶ The specific thresholds for the application of BHP to hazardous substances are discussed in the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 1, March 1985, available for inspection at Room M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460.

Assessment that substances may be potential carcinogens, based on either published or unpublished data. The Agency compared the list of substances derived from these four sources with the list of the CERCLA hazardous substances to determine which hazardous substances should be evaluated for potential carcinogenicity.

Not all of the substances so identified are subsequently ranked for potential carcinogenicity. Only those substances that fall within the Agency's weight-of-evidence Groups A, B, or C discussed below (i.e., known, probable, or possible human carcinogens) are ranked and assigned tentative RQs based on potential carcinogenicity.

The evaluation of hazardous substances for potential carcinogenicity initially involves a qualitative assessment of the available scientific literature on the substance. The data are reviewed to determine the degree of certainty or weight of evidence that a particular hazardous substance is a human carcinogen. The substance is then classified in an overall weight-of-evidence category (A, B, C, D, or E).

A hazardous substance is placed in Group A (known human carcinogen) only if "sufficient" evidence from human epidemiologic studies supports a causal connection between exposure to the hazardous substance and cancer. Group B (probable human carcinogen) is divided into two subgroups, B1 and B2. Group B1 includes hazardous substances for which the weight of evidence of human carcinogenicity based on epidemiologic studies is "limited." Group B2 includes hazardous substances for which there is "no data," "inadequate evidence," or "no evidence" of human carcinogenicity from epidemiologic studies, but for which the weight of evidence of carcinogenicity based on animal studies is "sufficient." Group C (possible human carcinogen) includes hazardous substances with "limited" evidence of carcinogenicity in animals and "inadequate evidence," "no data," or "no evidence" from human epidemiologic studies. As mentioned in the March 16, 1987 NPRM (52 FR 8144), Group D substances (not classifiable for human carcinogenicity) and Group E substances (evidence of noncarcinogenicity for humans) are not

considered potential carcinogens for purposes of this rulemaking.

The evaluation of hazardous substances for potential carcinogenicity also involves a quantitative assessment of the available data to calculate the relative strength of a hazardous substance to elicit a carcinogenic response (i.e., the "potency factor").8 This quantitative assessment allows the Agency to rank potential carcinogens on a numerical scale by identifying the most potent substances as the most hazardous. Group 1 includes those hazardous substances with the highest potencies. Other potential carcinogens with medium and low potencies are placed in Groups 2 and 3, respectively.

The final step in the hazard ranking procedure is to combine the qualitative weight-of-evidence groups and the quantitative potency factor groups using a matrix to yield a relative hazard ranking for each substance. Thus, hazard rankings are based on two factors—weight of evidence and potency—that the Agency believes are important in describing carcinogenic hazards. The following is the matrix used to assign hazard rankings to potential carcinogens in today's two final rules:

HAZARD RANKING

Weight-of- evidence	Potency group					
group	1 (highest)	2	3 (lowest)			
A	Medium No hazard r	Medium. Low anking is ary criteria	Low.			
E	No hazard r other prim to assign t	ary criteri	made. The a are used			

The matrix is used to group the potential carcinogens into "high," "medium," and "low" hazard categories, and is arranged so that as the weight of evidence and the potency decrease, the hazard ranking also decreases. RQ levels are then assigned to the hazard rankings as follows: high—one-pound RQ; medium—10-pound RQ; and low—100-pound RQ.

For a more detailed discussion of the RQ adjustment methodology based on the primary criterion of potential carcinogenicity, see the preamble to the March 16, 1987 NPRM (52 FR 8140) and the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 3, available for inspection at Room M2427, U.S. EPA, 401 M Street, Sw., Washington, DC 20460.

EPA stated in the March 16, 1987
NPRM (see 52 FR 8146) that it was
reviewing its position on consideration
of benign tumors and pooling of tumor
sites and types, as set forth in the
Agency's Guidelines for Carcinogen
Risk Assessment.9 The effect of this
review on RQs for potential carcinogens
is discussed in the preamble to the final
rule published elsewhere in today's
Federal Register in which EPA
promulgates RQ adjustments for 258
hazardous substances.

2. Responses to Comments Received on the Methodology

The Agency received 35 comment letters on the March 16, 1987 NPRM (52 FR 8140). Ten of these letters contain comments that address the RO adjustment methodology proposed in that NPRM for evaluating CERCLA hazardous substances for potential carcinogenicity. The comments on the RQ adjustment methodology are grouped into five categories: (1) Carcinogen hazard ranking methodology and the 100-pound maximum RQ; (2) the use of NTP and IARC publications in the Agency's identification methodology; (3) the Agency's use of its Guidelines for Carcinogen Risk Assessment to derive RQs; (4) the application of the secondary RQ adjustment criteria of BHP to potential carcinogens; and (5) the application of the CWA mixture rule to hazardous waste streams. Because none of the six hazardous substances that are the subject of this final rule meets the criteria for applying BHP and none are hazardous waste streams, the following discussion focuses on the first three comment categories. Comments that fall within the last two categories are addressed in a final rule published elsewhere in today's Federal Register that promulgates RQ adjustments for 254 of the 273 hazardous substances proposed for adjustment in the March 16. 1987 NPRM.

The addition to this application of unpublished data to identify potential carcinogens, EPA intends to use such data for the purpose of ranking potential carcinogens under the CERCLA RQ methodology. Currently, the Agency is evaluating unpublished data received on the weight of evidence and potency of certain potential carcinogens and will present the results of this evaluation, along with any RQ adjustments, in a future rulemaking.

⁸ For an explanation of how potency factors are calculated, see the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 3, available for inspection at Room M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460.

⁹ As discussed in Section II.B.2.c below, the Cuidelines provide that benign tumors should be considered along with malignant tumors unless there is evidence that the benign tumors do not have the potential to progress to malignancies of the same histogenic origin. The Agency pools tumor sites and types when each site or type, viewed separately, shows a tumor incidence that is elevated significantly above the incidence in control animals [51 FR 33992, September 24, 1986].

a. Carcinogen Hazard Ranking Methodology and the 100-Pound Maximum RQ. In the March 16, 1987 NPRM (52 FR 8140), EPA proposed RQ adjustments for potential carcinogens of one, 10, and 100 pounds. Several commenters objected to the proposed 100-pound maximum RQ for potential carcinogens. The commenters recommended that hazardous substances with no greater than "inadequate" evidence of cancer in humans and "limited" evidence of cancer in animals receive 1000- or 5000pound RQs.

EPA disagrees with the commenters for the reasons discussed below. First, as stated in the March 16, 1987 NPRM, although cancer is a unique health effect with its own special properties, it is also a type of chronic effect. EPA, therefore, has determined that reference to the Agency's chronic toxicity methodology is appropriate in assigning RQs to potential carcinogens. Under the chronic toxicity methodology, each substance is assigned two rating values, one based on the dose that causes a particular effect, and one based on the severity of the effect. The dose ratings range from one to 10, with 10 representing the most toxic substances. The effect ratings also range from one to 10, with 10 representing the most severe effect. The product of the dose and effect ratings for each substance yields a composite ranking score between one and 100. Because cancer is a life-threatening effect, the effect rating for cancer would be 10 if cancer were ranked on the chronic toxicity scale. Therefore, the composite score for any potential carcinogen would be at least 10. A composite score of 10 corresponds to an RQ of 1000 pounds. Thus, a 5000-pound RO for a potential carcinogen would be inappropriate based on the Agency's chronic toxicity scale (see 52 FR 8145).

Two commenters stated that this analogy between chronic toxicity and potential carcinogenicity is not valid because chronic toxicants have known human health effects, whereas the human health effects of potential carcinogens are often determined by speculation based on animal data. EPA believes that these commenters have exaggerated the distinction between the data for chronic toxicity and the data for potential carcinogenicity. The human health effects of both chronic toxicants and potential carcinogens are based to a large degree on observation of health effects in experimental animals. Therefore, the Agency believes that reference to its chronic toxicity methodology in determining the RQ

levels for potential carcinogens is appropriate.

Second, EPA believes that the special properties of potential carcinogens are important in assigning RQ levels to these substances. These special properties are: (1) The lack of a demonstrated threshold level below which a potential carcinogen presents no risk of cancer; (2) the cumulative nature of cancer risks; and (3) the fact that cancer has a latent period that does not allow direct observation of carcinogenic risks from substances newly released into the environment (52 FR 8145, March 16, 1987).

These three special properties of potential carcinogens suggest a conservative approach by the Agency in assigning RQ levels to these substances. Where a potential carcinogen does not have a threshold level of exposure below which it presents no risk of cancer, each individual exposure, regardless of amount, may cause irreversible health effects. The lack of demonstrated threshold levels for potential carcinogens also means that an individual may develop cancer (an irreversible health effect) at doses that cause no other physical effects. The cumulative nature of cancer risks means that each additional exposure, at any dose, further increases the likelihood of a carcinogenic response. Additionally, for substances that have a latent period that does not allow direct observation of carcinogenic risks, the Agency has greater reason to be conservative in assessing the health risks accompanying exposure at any dose. In particular, the latent period of cancer, when taken together with the fact that cancer may develop from doses too small to cause other physical effects, means that individuals may not be aware that they need to leave release sites at which they may be exposed to dangerous levels of potential carcinogens. The Agency, therefore, has determined that the special properties of potential carcinogens justify assigning lower RQs (i.e., one, 10, and 100 pounds) to potential carcinogens than the RQs that are assigned to other hazardous substances (i.e., one, 10, 100, 1000, and 5000 pounds).

In summary, a 100-pound maximum RQ for potential carcinogens is retained because (1) reference to the Agency's chronic toxicity scale shows that a 5000pound RQ would be inappropriate for any potential carcinogen; and (2) the Agency believes that the special properties of potential carcinogens justify a more conservative approach in setting RQ levels for these substances than for other hazardous substances.

Several commenters objected to the fact that the Agency assigns the same "low" hazard ranking (and resultant 100pound RQ) to weight-of-evidence Group C, potency Group 3 potential carcinogens that it assigns to weight-ofevidence Group B2, potency Group 3 potential carcinogens. Thus, the commenters disagreed with the proposed 100-pound maximum RQ for potential carcinogens. The commenters recommended that hazardous substances with no greater than "inadequate" evidence of cancer in humans and "limited" evidence of cancer in animals (i.e., weight-ofevidence Group C) receive 1000- or 5000pound RQs.

At this time, EPA has decided to retain the 100-pound maximum RQ for potential carcinogens. However, EPA plans to evaluate the RQ adjustment methodology for potential carcinogens, particularly the weight-of-evidence Group C, potency Group 3 substances.10 The results of this evaluation will be addressed in a future Agency action. Note that this continuing investigation does not alter today's determination that these substances be assigned RQs of no more than 100 pounds.

b. Use of NTP and IARC Determinations. Several commenters suggested that the Agency not rely on NTP and IARC determinations as a basis for RQ rulemakings and recommended that EPA independently evaluate the qualitative evidence of carcinogenicity for each hazardous substance. In the March 16, 1987 NPRM (52 FR 8143), the Agency proposed a procedure for screening the list of CERCLA hazardous substances to identify hazardous substances that might require assessment for potential carcinogenicity. The NTP annual reports and IARC monographs are used only as an initial screen for substances to be evaluated for potential carcinogenicity by the Agency. The conclusions reached by IARC or NTP on specific chemicals do not determine directly whether a hazardous substance is considered a potential carcinogen for purposes of establishing RQs. Rather, EPA follows

¹⁰ Five individual hazardous substances are in this category: 5-nitro-o-toluidine; saccharin; ptoluidine; 1,1,1,2-tetrachloroethane; and 1,1,2trichloroethane. EPA is promulgating an RQ adjustment of 100 pounds for saccharin in this final rule. RQ adjustments of 100 pounds for the other four weight-of-evidence Group C, potency Group 3 substances are promulgated in a final rule published elsewhere in today's Federal Register. In that same final rule, EPA also promulgates RQ adjustments for seven waste streams (F002, K073, K095, K096, K112, K113, and K114) that contain one or more of the five weight-of-evidence Group C, potency Group 3 substances.

the procedures set out in its Guidelines for Carcinogen Risk Assessment to make this determination.

c. Application of EPA's Carcinogen Assessment Guidelines. EPA's methodology for adjusting RQs for potential carcinogens is derived from the Agency's Guidelines on Carcinogen Risk Assessment. The comments addressed in this section are directed toward the Guidelines' classification of potential carcinogens. Although the discussion of these issues below is not an independent defense of the Guidelines, the Agency's responses to public comments in this rulemaking are fully consistent with EPA's response to comments received during preparation of the final Guidelines.

Two commenters objected to the Agency's lack of distinction between the B1 and B2 weight-of-evidence Groups for hazard ranking purposes. These commenters suggested that weight-ofevidence Groups B1 and B2 be distinguished by assigning B2 potential carcinogens hazard rankings one level higher than the hazard rankings for B1

potential carcinogens.

As discussed in Section II.B.1 above, the Agency has divided weight-ofevidence Group B into two subgroups, B1 and B2. Where there is limited evidence of carcinogenicity from epidemiologic studies, a hazardous substance usually is placed in Group B1. Hazardous substances for which there is "sufficient" evidence from animal studies and "inadequate" evidence or "no data" from human epidemiologic studies are usually placed in Group B2. The decision to divide Group B into two subgroups reflects only the type of evidence of carcinogenicity, not a judgment that B2 substances are of lesser concern than B1 substances. Furthermore, because it is reasonable to treat hazardous substances for which there is sufficient evidence of carcinogenicity in animals (Group B2) as if they present a carcinogenic risk to humans, such substances, along with other substances for which there is limited evidence from human epidemiologic studies (Group B1), are classified as probable human carcinogens (Group B). Thus, the Agency believes that, for RQ adjustment purposes, no distinction in levels of concern is warranted between Group B1 and Group B2 substances.

Two commenters suggested that the Agency not count benign tumors equally with malignant tumors when there is no evidence that the benign tumors are precursors of malignant tumors or are life threatening. EPA agrees with the commenters that benign tumors should not be treated equally with malignant

tumors if there is no evidence that the benign tumors will progress to malignancies of the same histogenic origin. It is recognized, however, that benign tumors frequently induce malignant tumors and that benign tumors often progress to malignant tumors (see 51 FR 33992, 33994, citing Interdisciplinary Panel on Carcinogenicity, 1984, Science 225:686, note 4). In such cases, the Agency's consideration of benign tumor data in assessing potential carcinogenicity is appropriate.

Several commenters disagreed with the Agency's use of body surface area ratios for deriving human potency values from animal potency calculations and recommended the use of bodyweight ratios instead. The commenters argued that the use of body surface area as an interspecies scaling factor is based on data relating to the noncarcinogenic effects of drugs. The Agency's use of body surface area to extrapolate from animals to humans was discussed in the response to comments on the Proposed Guidelines for Carcinogen Risk Assessment. In that response, the Agency concluded that the choice of the body surface area scaling factor could be justified by the data on effects of drugs in various species, and that EPA would continue to use this scaling factor unless data on a specific agent suggests that a different scaling factor is justified. Furthermore, because RQs are based on a relative ranking of substances, the consistent application of scaling factors to all substances should not have a material effect on the relative

Two commenters objected to the Agency's policy of pooling tumors at different sites. The Agency pools tumor sites, however, only when each site, viewed separately, shows a significant elevated tumor incidence. EPA believes that pooling of tumor sites is justified in these limited circumstances because an agent that induces cancer in two locations is of greater concern than an agent that induces cancer in only one location.

The same two commenters objected to the Agency's use of effective dose (which takes into account absorption, distribution, metabolism, and excretion of potential carcinogens) to calculate potency. The commenters argued that administered dose (the actual experimental dose) should be used to estimate relative carcinogenic potency for purposes of assigning RQs. The commenters acknowledged that effective dose is appropriate for estimating absolute measures of risk. The commenters failed to demonstrate, however, that effective dose is

inappropriate for measuring relative risk. As a practical matter, for most hazardous substances (approximately 90 percent), EPA uses administered dose because the Agency lacks information necessary to distinguish between administered dose and effective dose. Nevertheless, where such information is available, the Agency prefers to use effective dose rather than administered dose, because the former is more appropriate for measuring relative levels of risk (e.g., RO levels). Effective dose is used to determine carcinogenic potency only when a substance has undergone extensive studies that have been subject to peer review.

One commenter stated that the Agency proposed to regulate animal carcinogens in the same manner as known human carcinogens and that regulation should focus on exposures to substances with known human health effects. This commenter is mistaken in believing that the RQ adjustment methodology treats animal and human carcinogens equally. The hazard ranking methodology used to establish RQs for potential carcinogens assigns lower RQs to known human carcinogens of the same potency as known animal carcinogens for which the human evidence is limited or inadequate. Moreover, EPA does not believe that its regulation of potential carcinogens should be limited to those which have known human health effects, because the Agency strongly believes that animal data are relevant to predict the potential for a carcinogenic response at some dose in humans.

One commenter argued that extrapolation from continuous low-dose exposure studies to effects of one-time releases cannot be made. The Agency acknowledges that estimating the absolute effect of one-time releases from experimental data is difficult. However, the establishment of ROs is not based on an assessment of absolute effects. and the Agency believes that the Guidelines for Carcinogen Risk Assessment (which were followed in this rulemaking) provide a reasonable basis for determining a relative ranking of potential carcinogens. These guidelines have been peer reviewed and revised based on public comments and therefore provide a reasonable basis for carcinogenic assessment. Furthermore. the commenter failed to note certain implications of the relationship between one-time releases and one-time exposures. One-time releases can contaminate water or soil, resulting in continuous low-dose exposures over a period of years. Thus, the Agency's extrapolation from continuous low-dose

exposure studies to effects of one-time releases is reasonable.

This commenter also noted that there are significant uncertainties involved in low-dose extrapolation. EPA agrees and, therefore, has developed an RQ methodology that does not use low-dose extrapolation. The methodology relies instead on the ED10, that is, the dose that causes an increased cancer incidence of 10 percent. Use of the ED10 is advantageous because it eliminates the issue of low-dose extrapolation for RQ adjustment purposes.

The same commenter argued that low doses of certain heavy metals are essential to human health, and that low exposures to suspected carcinogens may not pose significant incremental risks. Thus, according to the commenter, extrapolation over a wide range of doses may not be appropriate.

EPA agrees with the commenter that certain substances can have both beneficial effects at low doses and toxic effects at high doses. In addition, low doses can have both beneficial and toxic effects simultaneously. The question of whether a particular release will cause exposed individuals to experience toxic effects, however, is a question of risk assessment to be made by the Federal On-Scene Coordinator (OSC) based on all available information pertinent to the particular release. As stated earlier, the establishment and adjustment of RQs is intended to be a reporting trigger rather than a risk assessment.

For the reasons discussed above, EPA has decided at this time that no changes to the Agency's Guidelines for Carcinogen Risk Assessment are necessary. Nevertheless, the Agency continually reviews the Guidelines; if new information or procedures become available, the Agency will consider whether revisions are warranted.

C. Substances for Which RQs Are Adjusted

1. Summary

Today's final rule adjusts the RQs for six of the 273 hazardous substances whose RQs were proposed to be adjusted in the March 16, 1987 NPRM. These six RQ adjustments are shown in the following table:

Hazardous substance	Statutory RQ	Proposed and final RQ adjustment
1,4-Dioxane	1	100
2-Ethoxyethanol	1	1000
Ethylene oxide	1	10
2-Nitropropane	1	10
Perchloroethylene	1	100

Hazardous substance	Statutory RQ	Proposed and final RQ adjustment
Saccharin and salts	1	100

EPA has promulgated the proposed RQ adjustments without change for each of these six substances. For the reasons discussed in Section I.B. of this preamble, the Agency has decided to expedite the promulgation of RQ adjustments for these six substances.

2. Response to Comments

Public comments on the March 16, 1987 NPRM addressed proposed RQ adjustments for three of the six hazardous substances in this rulemaking: 1,4-dioxane, saccharin, and perchloroethylene. No comments were received on the proposed RQ adjustments for 2-ethoxyethanol, ethylene oxide, and 2-nitropropane.

Two commenters supported adjusting the RO for 1,4-dioxane from the onepound statutory level to 100 pounds. One commenter supported the proposed RQ adjustment of 100 pounds for saccharin because, the commenter suggested, the new reporting level would be consistent with public health concerns in general, and with the lack of hazard posed by a potential release of between one and 100 pounds of saccharin during transportation. The Agency agrees that the one-pound statutory RQ for saccharin does not appropriately reflect its carcinogenic potential. Saccharin is a weight-ofevidence Group C, potency Group 3 substance which therefore receives a low hazard ranking and a 100-pound

Three commenters recommended that perchloroethylene should be classified as a weight-of-evidence Group C substance, rather than as a Group B2 substance as proposed in the March 16, 1987 NPRM. The available rat tumor data and mouse tumor data, when considered together, support the Agency's current position that perchloroethylene should fall into the B2 category based on sufficient animal evidence of carcinogenicity (see Addendum to Health Assessment Document for Tetrachloroethylene (Perchloroethylene), External Review Draft, April 2, 1986; NTIS #PB86-174489). EPA's position on this issue is consistent with the IARC classification of perchloroethylene. However, it is important to note that EPA's B2 classification for perchloroethylene is based on a draft carcinogenicity assessment that has not yet been finalized. If this classification changes based on the final assessment, and the

change warrants an adjustment of the RQ for perchloroethylene, the RQ will be adjusted in a future rulemaking. Pending the results of the Agency's final carcinogenicity assessment, the B2 classification and 100-pound RQ adjustment for perchloroethylene will be maintained in this final rule.

In a final rule published elsewhere in today's Federal Register, the Agency responds to public comments on 254 of the 273 RQ adjustments proposed in the March 16, 1987 NPRM. As explained in Section II.C.2.i of the preamble to that final rule, EPA will address the RQs for the remaining 13 substances that were the subject of the March 16, 1987 NPRM in a future action.

III. SUMMARY OF SUPPORTING ANALYSES

A. Executive Order No. 12291

Executive Order (E.O.) 12291 requires that regulations be classified as major or nonmajor for purposes of review by the Office of Management and Budget (OMB). According to E.O. 12291, major rules are regulations that are likely to result in:

- (1) An annual effect on the economy of \$100 million or more; or
- (2) A major increase in costs or prices for consumers, individual industries, Federal, State, or local government agencies, or geographic regions; or
- (3) Significant adverse effects on competition, employment, investment, productivity, innovation, or on the ability of United States-based enterprises to compete with foreign-based enterprises in domestic or export markets.

An economic analysis performed by the Agency, available for inspection at Room M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460, shows that today's final rule is nonmajor, because the rule will result in estimated net cost savings of \$1.5 million annually. The annual net cost savings of all RQ adjustments promulgated or proposed to date (including those contained in this final rule) is estimated to be \$34.7 million. It should be noted that these net cost savings reflect only those effects of the RO adjustments that are: (1) Readily quantifiable in dollars; and (2) associated with the notification requirements under CERCLA section 103 and SARA section 304 (including the associated activities of recordkeeping, notification processing, monitoring, and response).

This final rule has been submitted to OMB for review, as required by E.O. No. 12291.

B. Regulatory Flexibility Act

The Regulatory Flexibility Act of 1980 requires that a Regulatory Flexibility Analysis be performed for all rules that are likely to have a "significant impact on a substantial number of small entities." To determine whether a Regulatory Flexibility Analysis was necessary for today's final rule, a preliminary analysis was conducted using a computer model that simulated the typical operation of a small U.S. chemical company.

The results of the simulation indicate that the upper-bound total cost of compliance to small firms is negligible. See the Regulatory Impact Analysis of Reportable Quantity Adjustments Under Sections 102 and 103 of the Comprehensive Environmental Response, Compensation, and Liability Act, Volume I, March 1985, available for inspection at Room M2427, U.S. EPA. 401 M Street, SW., Washington, DC 20460. Therefore, because today's final rule is not expected to have a significant impact on small entities, EPA certifies that no Regulatory Flexibility Analysis is necessary.

C. Paperwork Reduction Act

EPA requires an Information Impact Analysis for all rules that impose a paperwork burden on the public. This analysis estimates the burden imposed on parties outside EPA for activities such as notification or recordkeeping. Today's final rule will provide a decrease in the paperwork burden imposed on the regulated community for information collection associated with fewer releases being reportable. Because the effect of this final rule on the paperwork burden is a reduction, EPA has determined that no further Information Impact Analysis need be performed.

The information collection requirements contained in this rule have been approved by the OMB under the provisions of the Paperwork Reduction Act, 44 U.S.C. Section 3501 et seq., and have been assigned OMB control number 2050–0046.

The public reporting burden for this collection of information is estimated to vary from 8 to 11 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM—223, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503, marked "Attention: Desk Officer for EPA."

List of Subjects in 40 CFR Part 302

Air pollution control, Chemicals, Hazardous materials, Hazardous materials transportation, Hazardous substances, Hazardous wastes, Intergovernmental relations, Natural resources, Oil pollution, Pesticides and pests, Reporting and recordkeeping requirements, Superfund, Waste treatment and disposal, Water pollution control, Water supply.

Dated: June 28, 1989.

William K. Reilly,

Administrator.

For the reasons set forth in the preamble, 40 CFR Part 302 is amended as follows:

PART 302—DESIGNATION, REPORTABLE QUANTITIES, AND NOTIFICATION

1. The authority citation for Part 302 is revised to read as follows:

Authority: 42 U.S.C. 9602; 33 U.S.C. 1321 and 1361.

§ 302.4 [Amended]

2. Section 302.4 is amended by revising the following entries in Table 302.4 and Appendix A to read as set forth below. The note preceding Table 302.4 is republished without change.

Note: The numbers under the column headed "CASRN" are the Chemical Abstracts Service Registry Numbers for each hazardous substance. Other names by which each hazardous substance is identified in other statutes and their implementing regulations are provided in the "Regulatory Synonyms" column. The "Statutory RQ" column lists the RQs for hazardous substances established by section 102 of CERCLA. The "Statutory Code" column indicates the statutory source for designating each substance as a CERCLA hazardous substance: "I" indicates that the statutory source is section 311(b)(4) of the Clean Water Act, "2" indicates that the source is section 307(a) of the Clean Water Act, "3" indicates that the source is section 112 of the Clean Air Act, and "4" indicates that the source is RCRA section 3001. The "RCRA Waste Number" column provides the waste identification numbers assigned to various substances by RCRA regulations. The column headed "Category" lists the code letters "X," "A," "B," "C," and "D," which are associated with reportable quantities of 1, 10. 100, 1000, and 5000 pounds, respectively. The "Pounds (kg)" column provides the reportable quantity adjustment for each hazardous substance in pounds and kilograms.

TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

				Statuto	ry	Fi	nal RQ
Hazardous substance	CASRN Regulatory synonyms Ro	RQ	Codet	RCRA waste No.	Cate- gory	Pounds (Kg)	
and the state of the state of the state of				30 6 184	Land i	12.00	THE RESERVE
1.2-Benzisothiazolin-3-one, 1, 1-dioxide, and salts	81072	Saccharin and salts	1*	4	U202	В	100 (45.4)
1,4-Diethylene dioxide	123911	1,4-Dioxane	1"	4	U108	В	100 (45.4)
1,4-Dioxane	123911	1,4-Diethylene dioxide	1"	4	U108	В	100 (45.4)
Ethene, 1,1,2,2-tetrachloro-	127184	Perchloroethylene	1*	2,4	U210	В	100 (45.4)
2-Ethoxyethanol		Ethylene glycol monoethyl ether	1.	4	¥ U359	c	1000 (454)
Ethylene glycol monoethyl ether	110805	2-Ethoxyethanol	1.	4	U359	C	1000 (454)

TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

		The State of the S		Statutor	у	Fi	nal RQ
Hazardous substance	CASRN	CASRN Regulatory synonyms	RQ	Codet	RCRA waste No.	Cate- gory	Pounds (Kg)
THE PARTY OF THE P							
Ethylene oxide	75218	Oxirane	1.	4	U115	A	10 (4.54)
2-Nitropropane	79469	Propane, 2-nitro-	1.	4	U171	A	10 (4.54)
Oxirane	75218	Ethylene oxide	1*	4	U115	A	10 (4.54)
Perchloroethylene	127184	Ethene, 1,1,2,2-tetrachloro	1*	2,4	U210	В	100 (45.4)
Propane, 2-nitro	79469	2-Nitropropane	1.	4	U171	A	10 (4.54)
Saccharin and salts	81072	1,2-Benzisothiazolin-3-one,1,1-dioxide, and salts	1*	4	U202	В	100 (45.4
Fetrachloroethene	127184	Ethene, 1,1,2,2-tetrachloro		2,4	U210	В	100 (45.4
Fetrachloroethylene	127184	Tetrachloroethylene Ethene, 1,1,2,2-tetrachloro- Perchloroethylene Tetrachloroethene	1*	2,4	U210	В	100 (45.4
Andrew of the late	Still Marile Do			1		-	1

Appendix A

SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES

CASRN	Hazardous substance				
		The Ale			
75218	Ethylene oxide				
	Oxirane				
	THE STATE OF THE STATE OF				
79469	Propane, 2-nitro-				
	2-Nitropropane				
B1072	. 1,2-Benzisothiazolin- and salts Saccharin and salts	3-one,1,1	-dioxide,		
	a a		* * *		
110805	. Ethylene glycol mon	oethyl ett	her		
	2-Ethoxyethanol				
			•		
123911	. 1,4-Diethylene dioxid	le			
	1,4-Dioxane				
127184	Ethene, 1,1,2,2-tetra Perchloroethylene Tetrachloroethene	chloro-			
	Tetrachloroethylene				
			-		

[FR Doc. 89-15745 Filed 8-11-89; 8:45 am] BILLING CODE 6560-50-M

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Parts 116, 117, and 302

[SW H-FRL 3372-8]

Reportable Quantity Adjustments; **Delisting of Ammonium Thiosulfate**

AGENCY: U.S. Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: Sections 103(a) and (b) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended, require that persons in charge of vessels or facilities from which hazardous substances have been released in quantities that are equal to or greater than their reportable quantities (RQs) immediately notify the National Response Center of the release. Section 102(b) sets an RQ of one pound for hazardous substances, except those substances for which different RQs have been established pursuant to section 311(b)(4) of the Clean Water Act (CWA). In addition to these reporting requirements, section 304 of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires that releases of hazardous substances in quantities

equal to or greater than their RQs (or one pound if a reporting trigger is not established by regulation) be reported to State and local authorities.

Section 102(a) of CERCLA authorizes the U.S. Environmental Protection Agency (EPA or "the Agency") to adjust RQs for hazardous substances and to designate as hazardous substances those substances that, when released into the environment, may present substantial danger to the public health or welfare or the environment. Currently, there are 725 CERCLA hazardous substances. In this rulemaking, EPA is promulgating final RQ adjustments for 258 hazardous substances. Of these 258 hazardous substances, 254 had RQs proposed for adjustment by EPA in a Notice of Proposed Rulemaking (NPRM) published on March 16, 1987 (52 FR 8140).2 RQs for four additional hazardous substances that were not proposed for adjustment in the March 16, 1987 NPRM are also included in this final rule. These four hazardous substances are waste streams that were listed as hazardous under section 3001 of the Resource Conservation and Recovery Act (RCRA)

^{†—}indicates the statutory source as defined by 1, 2, 3, or 4 below;
1—indicates that the statutory source for designation of this hazardous substance under CERCLA is CWA Section 311(b)(4)
2—indicates that the statutory source for designation of this hazardous substance under CERCLA is CWA Section 307(a)
3—indicates that the statutory source for designation of this hazardous substance under CERCLA is CAA Section 112
4—indicates that the statutory source for designation of this hazardous substance under CERCLA is RCRA Section 3001
1*—indicates that the 1-pound RQ is a CERCLA statutory RQ

¹ See Note 1 at the end of the text of this

² See Note 2 at the end of the text of this preamble.

(and, therefore, were designated as hazardous under CERCLA) after the March 16, 1987 proposal was published.³

By making the adjustments contained in this rulemaking, the Agency will be able to focus its resources on those releases that are most likely to pose potential threats to public health or welfare or the environment. In addition, by making these adjustments, EPA will relieve the regulated community of the burden of reporting releases that are unlikely to pose such threats.

EFFECTIVE DATE: October 13, 1989.

ADDRESSES: The toll-free telephone number of the National Response Center is 1–800/424–8802; in the Washington, DC metropolitan area the number is 1–202/267–2675.

Docket: Copies of materials relevant to this rulemaking are contained in Room M2427 at the U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460 (Docket Number 102 RQ-273C). The docket is available for inspection between the hours of 9:00 a.m. and 4:00 p.m., Monday through Friday, excluding Federal holidays. To review docket materials, you may make an appointment by calling 1-202/382-3046. The public may copy a maximum of 50 pages from any regulatory docket at no cost. Additional copies cost \$.20 per page.

FOR FURTHER INFORMATION CONTACT: Ivette O. Vega, Response Standards and Criteria Branch, Emergency Response Division, U.S. Environmental Protection Agency (OS-210), 401 M Street, SW., Washington, DC 20460, or the RCRA/Superfund Hotline at 1-800/424-9346; in the Washington, DC metropolitan area at 1-202/382-3000.

SUPPLEMENTARY INFORMATION: The contents of this preamble are listed in the following outline:

- I. Introduction
 - A. Statutory Authority
- B. Background of this Rulemaking
- II. Reportable Quantity Adjustments
- A. Introduction
- B. Reportable Quantity Adjustment Methodology
 - Summary of the Methodology
 Responses to Comments Received
 - on the Methodology
 - Application of BHP to Potential Carcinogens
 - Application of CWA Mixture Rule
 Hazardous Waste Streams
- C. Substances for Which RQs Are Adjusted
 - 1. Summary
- 2. Responses to Comments on Proposed RQs for Specific Substances

- a. Acrylonitrile
- b. Arsenic
- c. Asbestos
- d. Bis(2-ethylhexyl)phthalate
- e. Carbon tetrachioride
- f. Chloroform
- g. Chromium and chromium
- compounds
- h. Hexachlorobutadiene
 - i. Lead and lead compounds
 - j. Methyl chloride
 - k. Nickel and nickel compounds
 - Polychlorinated biphenyls
 - m. Trichloroethylene n. Vinyl chloride
 - o. Waste streams
- D. Update on Methyl Isocyanate III. RQ Adjustments Under CWA Section
- IV. Delisting of Ammonium Thiosulfate as a Hazardous Substance
- V. Replacement of the Registered Trademark, "Kelthane," with the Generic Name, Dicofol
- VI. List of Hazardous Substances and Adjusted RQs
- VII. Summary of Supporting Analyses A. Executive Order No. 12291 B. Regulatory Flexibility Act C. Paperwork Reduction Act
- List of Subjects

I. Introduction

A. Statutory Authority

Section 102(b) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (Pub. L. 96-510), 42 U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) (Pub. L. 99-499), establishes reportable quantities (RQs) of one pound for releases of hazardous substances, except for hazardous substances whose RQs were established at a different level pursuant to section 311 of the Clean Water Act (CWA). Section 102(a) of CERCLA authorizes the Administrator of the U.S. Environmental Protection Agency (EPA or "the Agency") to adjust all of these RQs by regulation.

Sections 103(a) and (b) of CERCLA require that the person in charge of a vessel or facility notify the National Response Center immediately when there is a release of a hazardous substance in an amount equal to or greater than the RQ for that substance. This notification requirement serves as a trigger for informing the government of a release so that Federal personnel can evaluate the need for a Federal removal or remedial action and undertake any necessary action in a timely fashion. Under section 104 of CERCLA, the Federal government may respond whenever there is a release or a substantial threat of a release of a hazardous substance into the

environment. Response activities are to be taken, to the extent practicable, in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR 300), which was originally developed under the CWA and which has been revised to reflect the responsibilities and authority created by CERCLA.

If a release meets certain statutory criteria set forth in CERCLA section 103(f)(2), the release may be subject to more limited reporting requirements. Specifically, a release is subject to these limited requirements if the release: (1) Is continuous and stable in quantity and rate, and is from a facility for which notification has been given under CERCLA section 103(c), or (2) is a release for which notification has been given under CERCLA sections 103(a) and (b) for a period sufficient to establish the continuity, quantity, and regularity of the release. Notification must still be given annually and when there is a statistically significant increase in the release. In addition, CERCLA section 103 provides a reporting exemption for federally permitted releases. The definition of federally permitted release in CERCLA section 101(10) specifically identifies releases permitted under certain other Federal or State programs. Several commenters claimed that their particular releases are subject to continuous and/ or federally permitted release treatment. EPA published proposed regulations to clarify the reduced reporting requirement for continuous releases on April 19, 1988 (53 FR 12868). EPA also clarified the reporting exemption for federally permitted releases in proposed regulations published on July 19, 1988 (53 FR 27268). Comments on continuous and federally permitted release issues submitted in response to the March 18, 1987 NPRM will be addressed in the upcoming final rules for continuous and federally permitted releases.

In addition to the reporting requirements established by CERCLA, section 304 of SARA Title III requires the owners or operators of certain facilities to report releases of CERCLA hazardous substances to State and local authorities. SARA Title III section 304 notification must be given immediately after the release of an RQ or more (one pound or more if a reporting trigger is not established by regulation) to the community emergency coordinator for each local emergency planning committee for any area likely to be affected by the release, and to the State emergency response commission of any State likely to be affected by the release. These notification requirements apply

³ See Note 3 at the end of the text of this preamble

only to releases that have potential for off-site exposure and that are from facilities at which a "hazardous chemical" (defined by regulations under the Occupational Safety and Health Act of 1970 (29 CFR 1910.1200(c)) and section 311 of SARA Title III) is produced, used,

Section 109 of CERCLA and section 325 of SARA Title III authorize EPA to assess civil penalties for failure to report releases of hazardous substances that equal or exceed their RQs. Section 103 of CERCLA, as amended, authorizes EPA to seek criminal penalties for submitting false or misleading information in a notification made pursuant to CERCLA section 103, and increases the maximum penalties and years of imprisonment for violation of the CERCLA section 103 reporting requirement.

B. Background of this Rulemaking

On May 25, 1983, EPA proposed a rule (48 FR 23552) to clarify procedures for reporting releases of CERCLA hazardous substances and to adjust RQs for 387 of the then 696 hazardous substances.4 In the May 25, 1983 NPRM, EPA also compiled for the first time the list of "hazardous substances" defined under section 101(14) of CERCLA. In the preamble to that NPRM, EPA discussed in detail the CERCLA notification provisions, the methodology and criteria used to adjust the RQ levels, and the RQ adjustments proposed under section 102 of CERCLA and under section 311 of the CWA. EPA promulgated final RQ adjustments for 340 hazardous substances in an April 4, 1985 final rule (50 FR 13456) and for an additional 102 hazardous substances in a September 29, 1986 final rule (51 FR 34534). In an NPRM published on March 16, 1987 (52 FR 8140), EPA proposed RQ adjustments for 273 hazardous substances. The March 18, 1987 Federal Register also contained an NPRM in which EPA proposed RQ adjustments for radionuclides. 5 In addition, in an NPRM

4 Since the May 25, 1983 NPRM, 31 substances

have been added and two substances have been

deleted from the CERCLA list, bringing the total

number of CERCLA hazardous substances to 725.

stream F024 (49 FR 5308); coke oven emissions (49 FR 36560); waste streams F020, F021, F022, F023,

K111, K112, K113, K114, K115, and K116, o-toluidine

K118, and K136 (51 FR 5327); 2-ethoxyethanol (51 FR

6537); waste streams K123, K124, K125, and K126 (51

and p-toluidine (50 FR 42936); waste streams K117

FR 37725); and waste streams K064, K065, K066, K068, K090, and K091 (53 FR 35412). The two

⁵ RQ adjustments for radionuclides were

1989 (54 FR 22524).

substances deleted from the list are: iron dextran (53 FR 43878) and strontium sulfide (53 FR 43881).

promulgated in a final rule published on May 24,

F028, F027, and F028 (50 FR 1978); waste streams

The 31 substances added to the list are: waste

published on March 2, 1988 (53 FR 6762), EPA reproposed RQ adjustments for lead metal and four lead compounds, and proposed to delist ammonium thiosulfate as a CERCLA hazardous substance.

In this rulemaking, EPA is promulgating final RQ adjustments for 258 hazardous substances, including 254 of the 273 substances proposed for adjustment in the March 16, 1987 NPRM.6 EPA promulgates final RQ adjustments for six of these 273 hazardous substances elsewhere in today's Federal Register. As explained in Section II.C.2.i below, EPA will address RQ adjustments for the remaining 13 of the 273 hazardous substances in a future action.

Section II of this preamble discusses the RQ adjustments promulgated in this rulemaking and the methodology used in making these adjustments. Section I also includes EPA's responses to public comments on the March 16, 1987 NPRM that are relevant to the 258 RQ adjustments made in this rule and to the RO adjustment methodology on which these 258 adjustments are based. Section III discusses RQ adjustments made under section 311 of the CWA. In finalizing these RQ adjustments, this rule amends Table 302.4 of 40 CFR Part 302 and Table 117.3 of 40 CFR Part 117. Section IV explains the delisting of ammonium thiosulfate as a hazardous substance. Section V discusses the replacement of the registered trademark, "Kelthane," with the generic name, dicofol. In making these changes concerning ammonium thiosulfate and dicofol, this rule amends Tables 116.4A and 116.4B of 40 CFR Part 116. Section VI provides a summary of the analyses supporting this rulemaking.

II. Reportable Quantity Adjustments

A. Introduction

In this rulemaking, the Agency adjusts RQs based upon specific scientific and technical criteria that relate to the possibility of harm from the release of a hazardous substance at certain levels. The quantity released is but one factor considered by the government when assessing the need to respond to such a release. Other factors, assessed on a case-by-case basis, include but are not limited to: (1) The location of the release; (2) its proximity to drinking water supplies or other valuable resources; and (3) the likelihood of exposure or injury to nearby populations. The RQ adjustments made

today will enable the Agency to focus its resources on those releases that are most likely to pose potential threats to public health or welfare or the environment. These adjustments will also relieve the regulated community and emergency response personnel from the burden of making and responding to reports of releases that are unlikely to pose such threats.

B. Reportable Quantity Adjustment Methodology

1. Summary of the Methodology

The Agency has wide discretion in adjusting the statutory RQs for hazardous substances under CERCLA. Administrative feasibility and practicality are important considerations. The Agency's methodology for adjusting RQs begins with an evaluation of the intrinsic physical, chemical, and toxicological properties of each hazardous substance. The intrinsic properties examinedcalled "primary criteria"-are aquatic toxicity, mammalian toxicity (oral, dermal, and inhalation), ignitability, reactivity, chronic toxicity,7 and potential carcinogenicity.

The Agency ranks hazardous substances for each intrinsic property (except potential carcinogenicity) on a five-tier scale, associating a specific range of values on each scale with a particular RQ value.8 This five-tier scale uses the five RO levels of one, 10, 100, 1000, and 5000 pounds, originally established pursuant to CWA section 311 (see 40 CFR 117 and 44 FR 50776) For hazardous substances evaluated for potential carcinogenicity, each substance is assigned a hazard ranking of "high," "medium," or "low." These hazard rankings correspond to RQ levels of one, 10, and 100 pounds, respectively (see Section II.B.2.a of the preamble to the final RQ adjustment rule published elsewhere in today's Federal Register). Each hazardous substance evaluated under the various primary criteria is assigned several tentative RQ values based on its particular intrinsic properties as data allow. The lowest of the tentative RQs becomes the "primary

^{*} For an explanation of the four additional substances in this final rulemaking, see the "Summary" above.

⁷ EPA is aware that some chronic effects result from acute (short-term) exposures and considers such data in the chronic toxicity evaluations. The Agency is further evaluating data on chronic effects resulting from acute exposures to ensure that such data receive adequate consideration in the RQ adjustment process.

^{*} All of the RQs promulgated in this rulemaking are subject to the Agency's review of the most recent systemic (i.e., relating to a particular organ system) toxicity data. These RQs will be revised, if necessary, in a future rulemaking based on the results of this review.

criteria RQ" for that substance. After the primary criteria RQs are assigned, substances are further evaluated for their susceptibility to certain degradative processes, which are used as secondary RQ adjustment criteria. These natural degradative processes are biodegradation, hydrolysis, and photolysis (BHP). (For discussion of the application of BHP to potential carcinogens, see Section II.B.2.a of this preamble.)

If a hazardous substance, when released into the environment, degrades relatively rapidly to a less hazardous form by one or more of the BHP processes,9 its RQ (as determined by the primary RQ adjustment criteria) is raised one level. This adjustment is made because the relative potential for harm to public health or welfare or the environment posed by the release of such a substance is reduced by these degradative processes. Conversely, if a hazardous substance degrades to a more hazardous product after its release, the original substance is assigned an RQ equal to the RQ for the more hazardous substance, which may be one or more levels lower than the RQ for the original substance. The downward adjustment is appropriate because the hazard posed by the release of the original substance is increased as a result of BHP.

To identify those CERCLA hazardous substances that may be potential carcinogens, EPA reviewed four sources of human epidemiologic and/or animal bioassay data on hazardous substances that suggest possible carcinogenic effect. These sources are: (1) The Annual Reports on Carcinogens of the National Toxicology Program (NTP), U.S. Department of Health and Human Services; (2) the Monographs of the International Agency for Research on Cancer (IARC); (3) final Agency determinations published in the Federal Register identifying substances as potential carcinogens; and (4) ongoing determinations by the Agency's Office of Health and Environmental Assessment that substances may be potential carcinogens, based on either published or unpublished data.10 The

Agency compared the list of substances derived from these four sources with the list of CERCLA hazardous substances to determine which hazardous substances should be evaluated for potential carcinogenicity.

Not all of the substances so identified are subsequently ranked for potential carcinogenicity. Only those substances that fall within the Agency's weight-of-evidence Groups A, B, or C discussed below (i.e., known, probable, or possible human carcinogens) are ranked and assigned tentative RQs based on potential carcinogenicity.

The evaluation of hazardous substances for potential carcinogenicity initially involves a qualitative assessment of the available scientific literature on the substance. The data are reviewed to determine the degree of certainty or weight of evidence that a particular hazardous substance is a human carcinogen. The substance is then classified in an overall weight-of-evidence category (A, B, C, D, or E).

A hazardous substance is placed in Group A (known human carcinogen) only if "sufficient" evidence from human epidemiologic studies supports a causal connection between exposure to the hazardous substance and cancer. Group B (probable human carcinogen) is divided into two subgroups, B1 and B2. Group B1 includes hazardous substances for which the weight of evidence of human carcinogenicity based on epidemiologic studies is "limited." Group B2 includes hazardous substances for which there is "no data," "inadequate evidence," or "no evidence" of human carcinogenicity from epidemiologic studies, but for which the weight of evidence of carcinogenicity based on animal studies is "sufficient." Group C (possible human carcinogen) includes hazardous substances with "limited" evidence of carcinogenicity in animals and "inadequate evidence," "no data," or "no evidence" from human epidemiologic studies. As mentioned in the March 16, 1987 NPRM (52 FR 8144), Group D substances (not classifiable for human carcinogenicity) and Group E substances (evidence of noncarcinogenicity for humans) are not considered potential carcinogens for purposes of this rulemaking.

The evaluation of hazardous substances for potential carcinogenicity also involves a quantitative assessment of the available data to calculate the relative strength of a hazardous

substance to elicit a carcinogenic

present the results of this evaluation, along with any

RQ adjustments, in a future rulemaking.

response (i.e., the "potency factor"). 11
This quantitative assessment allows the Agency to rank potential carcinogens on a numerical scale by identifying the most potent substances as the most hazardous. Group 1 includes those hazardous substances with the highest potencies. Other potential carcinogens with medium and low potencies are placed in Groups 2 and 3, respectively.

The final step in the hazard ranking procedure is to combine the qualitative weight-of-evidence groups and the quantitative potency factor groups using a matrix to yield a relative hazard ranking for each substance. Thus, hazard rankings are based on two factors-weight of evidence and potency-that the Agency believes are important in describing carcinogenic hazards. The hazard ranking matrix (see Section II.B.1 of the final RQ adjustment rule published elsewhere in today's Federal Register) is used to group the potential carcinogens into "high," 'medium," and "low" hazard categories. The matrix is arranged so that as the weight of evidence decreases and the potency factors decrease, the hazard ranking also decreases. RQ levels for potential carcinogens are then assigned to the hazard rankings as follows: highone-pound RQ; medium-10-pound RQ; and low-100-pound RQ. See Section II.B.2.a of this preamble for a discussion of the application of BHP to potential carcinogen RQs.

For a more detailed discussion of the RQ adjustment methodology based on the primary criterion of potential carcinogenicity, see the preamble to the March 16, 1987 NPRM (52 FR 8140) and the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 3, available for inspection at Room M2427. U.S. EPA, 401 M Street, SW., Washington, DC 20460. For a discussion of the Agency's response to public comments on the proposed one-, 10-, and 100-pound RQs for potential carcinogens, see Section II.B.2.a of the preamble to the final RQ adjustment rule published elsewhere in today's Federal Register.

EPA stated in the March 16, 1987 NPRM (see 52 FR 8146) that it was reviewing its position on consideration of benign tumors and pooling of tumor sites and types, as set forth in the Agency's Guidelines for Carcinogen

⁹ The specific thresholds for the application of BHP to hazardous substances are discussed in the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 1, March 1985, available for inspection at Room M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460.

¹⁰ In addition to this application of unpublished data to identify potential carcinogens, EPA intends to use such data for the purpose of ranking potential carcinogens under the CERCLA RQ methodology. Currently, the Agency is evaluating unpublished data received on the weight of evidence and potency of certain potential carcinogens and will

¹¹ For an explanation of how potency factors are calculated, see the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 3, available for inspection at Room y M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460.

Risk Assessment. 12 This process is now complete, and one substance (1,2-propylenimine) will have its final RQ (one pound) different from its proposed level (10 pounds) as a result of the review (see Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 3, and Evaluation of the Potential Carcinogenicity of 1,2-Propylenimine, available for inspection at Room M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460). 13

2. Responses to Comments Received on the Methodology

The Agency received 35 comment letters on the March 16, 1987 NPRM (52 FR 8140). Ten of these letters contained comments that address the RQ adjustment methodology proposed in that NPRM for evaluating CERCLA hazardous substances for potential carcinogenicity. The comments on the RQ adjustment methodology are grouped into five categories: (1) Carcinogen hazard ranking methodology and the 100-pound maximum RQ; (2) the use of NTP and IARC publications in the Agency's identification methodology; (3) the Agency's use of its Guidelines for Carcinogen Risk Assessment to derive RQs: (4) the application of the secondary RQ adjustment criteria of BHP to potential carcinogens; and (5) the application of the CWA mixture rule to hazardous waste streams. Public comments on the first three of these categories are addressed in a final rule published elsewhere in today's Federal Register. In that final rule, EPA promulgates RQ adjustments for six of the 273 hazardous substances whose RQs were proposed to be adjusted in the March 16, 1987 NPRM, and addresses all public comments relevant to those six RQ adjustments, including the first three comment categories mentioned above.

In the final rule published elsewhere in today's Federal Register, the Agency promulgates a carcinogen hazard ranking methodology that assigns 100pound RQs to substances in weight-ofevidence Group C and potency Group 3.14 However, as mentioned in Section II.B.2.a of the preamble to that final rule, the Agency plans to evaluate the RQ adjustment methodology for potential carcinogens, particularly the weight-of-evidence Group C, potency Group 3 substances. The results of this evaluation will be addressed in a future action.

The following discussion contains Agency responses to public comments on the application of BHP to potential carcinogens and the application of the CWA mixture rule to hazardous waste streams.

a. Application of BHP to Potential Carcinogens. In the March 16, 1987 NPRM, sufficient data were available to justify a one-level RQ increase, based on BHP, for six hazardous substances identified as potential carcinogens (bis(chloromethyl)ether, chloromethyl methyl ether, dimethyl sulfate, formaldehyde, 2-naphthalenamine, and waste stream K017). No comments were received on these proposed adjustments and, therefore, the RQs of these six hazardous substances are increased to 10, 10, 100, 100, 10, and 10 pounds, respectively, in this final rule. These increases are from the one-level-lower primary criteria RQs.

In the March 16, 1987 NPRM, however, the Agency proposed not to apply BHP to certain substances that had been identified as potential carcinogens. Specifically, an upward RQ adjustment based on BHP was not applied to any potential carcinogen with a primary criteria RQ of 100 pounds. In other words, the proposed 100-pound maximum RQ level for potential carcinogens was retained, regardless of the rate of degradation of potential carcinogens in the environment.

Several commenters on the March 16, 1987 NPRM stated that EPA's proposal to apply BHP to potential carcinogens with one- and 10-pound primary criteria RQs, but to preclude application of BHP to those potential carcinogens with primary criteria RQs of 100 pounds, appeared "illogical" because in the commenters' view the decision was not

sufficiently explained. The commenters argued that potential carcinogens with 100-pound primary criteria RQs should be eligible for a one-level RQ increase to 1000 pounds based on BHP.

EPA disagrees with the commenters that BHP should be applied to increase ROs for potential carcinogens from 100 to 1000 pounds. Such an approach conflicts with the Agency's decision to not apply BHP to raise the RQ of any substance above the maximum level permitted to be assigned to that substance by the RQ adjustment methodology (i.e., 100 pounds for potential carcinogens and 5000 pounds for other hazardous substances). Thus, just as BHP is not applied to increase ROs for substances other than potential carcinogens above 5000 pounds (see 50 FR 13469, April 4, 1985), BHP is not applied to raise the RQs of potential carcinogens above 100 pounds. The Federal On-Scene Coordinator (OSC) should be notified of releases of 100 pounds or more of potential carcinogens.15 The OSC can then decide whether a response to releases of these substances should be taken. If the OSC determines that a release of a potential carcinogen at or above the 100-pound RQ level has degraded to a less hazardous, noncarcinogenic substance, and therefore the special properties of potential carcinogens do not apply, the OSC may decide that a Federal response is unnecessary. Accordingly, the Agency has not applied BHP to adjust upward the 100-pound primary criteria RQs of potential carcinogens.

In this final rule, BHP has been applied to raise the primary criteria RQs of the following substances for which BHP was not proposed to be applied in the March 16, 1987 NPRM: acrylonitrile; compounds, waste streams, and unlisted hazardous wastes containing chromium (VI); and 3,3'-dimethoxybenzidine. BHP has been applied to compounds, waste streams, and unlisted hazardous wastes containing chromium (VI) as a result of public comments on the March 16, 1987 NPRM. BHP has been applied to acrylonitrile and 3,3'dimethoxybenzidine for reasons independent of public comment.16 For further discussion of the reasons for applying BHP to these substances in this final rule, see Sections II.C.1 and II.C.2.

¹² The Guidelines provide that benign tumors should be considered along with malignant tumors unless there is evidence that the benign tumors do not have the potential to progress to malignancies of the same histogenic origin. The Agency pools tumor sites and types when each site or type, viewed separately, shows a tumor incidence that is elevated significantly above the incidence in control animals (51 FR 33992, September 24, 1986).

¹³ EPA announced the RQ revision for 1,2-propylenimine, along with the reasons for the revision, in a supplement to the March 16, 1987 NPRM [see 53 FR 11890, April 11, 1988]. Public comments on that supplement do not affect the RQ adjustment for this hazardous substance. Therefore, the RQ for 1,2-propylenimine is promulgated at one pound, as stated in the April 11, 1988 supplement.

¹⁴ Five individual hazardous substances are in this cateogry: 5-nitro-o-toluidine; saccharin; p-toluidine; 1.1.1.2-tetrachloroethane; and 1.1.2-trichloroethane. EPA is promulgating an RQ adjustment of 100 pounds for saccharin in the final rule published elsewhere in todey's Federal Register. RQ adjustments of 100 pounds for the other four weight-of-evidence Group C, potency Group 3 substances are promulgated in this final rule. EPA also promulgates RQ adjustments in this final rule for seven waste streams [F002, K073, K095, K096, K112, K113, and K114] that contain one or more of the five weight-of-evidence Group C, potency Group 3 substances. The RQ adjustments promulgated in this final rule are discussed in Section II.C of this preamble.

¹⁸ Section II.B.2.a of the preamble to the final RQ adjustment rule published elsewhere in today's Federal Register contains the reasons for this determination.

¹⁶ The change in the proposed RQ for acrylonitrile as a result of applying BHP was announced in a supplement to the proposed rule published on April 11, 1988 (53 FR 11890).

One commenter suggested that end products should determine the RO of a parent hazardous substance, even when the RQ of a substance would be increased more than one level based on the characteristics of the end products. The Agency considered this possibility before deciding to raise by only one level the RQs of those substances that transform in the environment to less hazardous substances (see 50 FR 13470, April 4, 1985). The Agency selected the one-level upward adjustment because BHP processes are not instantaneous and, while degradation is in process, a large quantity of the more hazardous parent substance may pose a threat to public health or welfare or the environment. The Agency believes that the OSC should have the opportunity to decide whether to respond to the release of a hazardous substance that may persist long enough to pose such a threat before degrading to a less hazardous substance.

b. Application of CWA Mixture Rule to Hazardous Waste Streams. Under 40 CFR 302.6, if a person in charge of a vessel or facility knows the percentage composition of a waste stream, the CWA mixture rule may be applied. The CWA mixture rule provides that "[d]ischarges of mixtures and solutions are subject to [regulation] only where a component hazardous substance of the mixture or solution is discharged in a quantity equal to or greater than its RQ" (44 FR 50767, August 29, 1979). The RQs for different hazardous substances are not additive under the mixture rule, so that the release of a mixture containing half an RQ of one hazardous substance and half an RQ of another hazardous substance does not trigger the CERCLA section 103 reporting requirements (see 50 FR 13463, April 4, 1985). Reporting is required, however, if the concentrations of all of the hazardous constituents present in the mixture are not known and the total quantity released exceeds the RQ of the hazardous constituent within the mixture that has the lowest RQ.

One commenter supported the Agency's application of the CWA mixture rule. Another commenter expressed the understanding that the RQs for waste streams F001 through F005 would be based on the hazardous constituents present in the waste streams. Thus, according to this commenter, if the only hazardous constituent in an F001 waste stream were perchloroethylene, the applicable RQ would be the 100-pound RQ for perchloroethylene rather than the 10-pound RQ for waste stream F001.

This commenter is correct, provided that perchloroethylene is the only hazardous constituent in the waste stream. It should be emphasized, however, that if the person in charge does not know the constituents contained in the waste stream and, pursuant to 40 CFR 261, the waste is identified as waste stream F001, the 10-pound RQ for waste stream F001 would apply.

In response to these comments and to several other inquiries, the Agency is revising 40 CFR 302.6 in this final rule to clarify reporting requirements for mixtures and solutions (e.g., hazardous waste streams).

C. Substances for Which RQs Are Adjusted

1. Summary

In this final rule, EPA adjusts RQs for 258 hazardous substances, including 254 substances whose RQs were proposed to be adjusted in the March 16, 1987 NPRM. EPA in this rule lowers the RQs of 54 hazardous substances, raises the RQs of 121 hazardous substances, and leaves the RQs of 83 hazardous substances at their statutory levels. The hazardous substances include 187 individual hazardous substances and 71 hazardous waste streams.

The bases for the adjusted RQs of the 187 individual hazardous substances are as follows: 133 on the basis of potential carcinogenicity alone, 23 on the basis of potential carcinogenicity and at least one other primary criterion, and 31 on the basis of criteria other than potential carcinogenicity. The primary criteria RQs for 18 of the 187 individual hazardous substances were adjusted upward one level by applying BHP.

Of the 71 waste streams for which RQs are being adjusted in this rule, 67 were proposed for RQ adjustment in the March 16, 1987 NPRM. The four other hazardous waste streams for which RQs are promulgated in this rulemaking (K123, K124, K125, and K126) were listed as hazardous under section 3001 of RCRA in a final rule that became effective on April 24, 1987 [51 FR 37725, October 24, 1986). Therefore, these hazardous waste streams became CERCLA hazardous substances after publication of the March 16, 1987 NPRM, and their RQs consequently were not proposed for adjustment in that NPRM.

As stated in the October 24, 1986 final rule, if a waste stream contains only one constituent of concern, the RQ for the waste stream will be the same as the RQ for that constituent. The only constituent of concern present in waste streams K123, K124, K125, and K126 is ethylene thiourea (ETU). The Agency retained the

statutory one-pound RO for ETU in the April 4, 1985 final rule (50 FR 13487), pending completion of the Agency's analysis of ETU for potential carcinogenicity. In the March 16, 1987 NPRM, EPA proposed to readjust the RO for ETU to 10 pounds based on potential carcinogenicity. No comments were received on this proposed RO adjustment and EPA is promulgating a 10-pound RQ adjustment for ETU in this final rule. Because the RQ for a hazardous waste stream with only one hazardous constituent is the RQ for that constituent, the Agency today also is promulgating RQ adjustments of 10 pounds for waste streams K123, K124, K125, and K126.

In addition to individual hazardous substances and hazardous waste streams, EPA today adjusts RQs for five of the constituents used to determine the RCRA characteristic of extraction procedure (EP) toxicity for unlisted hazardous wastes.17 Five of the constituents used to determine EP toxicity have been assigned RQs as follows: one pound for arsenic, 10 pounds for hexavalent chromium, and 10 pounds for cadmium, each on the basis of potential carcinogenicity; and one pound for lindane and toxaphene on the basis of aquatic toxicity. An unlisted hazardous waste that exhibits EP toxicity has the RQ stated in Table 302.4 for the contaminant on which the characteristic of EP toxicity is based. The RQ applies to the unlisted waste itself, not merely to the toxic contaminant used as a reference substance for RQ purposes. The RQ for the metal constituents is based on the RQ for soluble metal salts, and not the metal itself.

The final RQ adjustments for 18 hazardous substances have changed from those proposed in the March 16, 1987 NPRM for reasons independent of public comment. These hazardous substances are listed below in Table 1.

TABLE 1.—PROPOSED AND FINAL RQS

Hazardous Substance	Proposed RQ (lbs.)	Final RQ (lbs.)
Acetamide, N-9H-fluoren-2-yl	10	1
Acrylonitrile	10	100
Azaserine	10	1
Benz(c)acridine	10	100
Benzotrichloride	1	10
Chrysene	10	100

¹⁷ Under 40 CFR 302.4(b), a solid waste as defined in 40 CFR 261.4(b) is a CERCLA hazardous substance if (1) it is not excluded from regulation as a hazardous waste under 40 CFR 261.4(b), and (2) it exhibits any of the characteristics identified in 40 CFR 261.20 through 261.24. EP toxicity is one of these characteristics (see 40 CFR 261.24).

TABLE 1.—PROPOSED AND FINAL RQS— Continued

Hazardous Substance	Proposed RQ (ibs.)	Final RQ (lbs.)
1,2-Dibromo-3-chloropropane	10	1
P-dimethylaminoazobenzene	1	10
3,3'-Dimethylbenzidine	100	10
N-nitroso-N-ethylurea	10	1
1,2 Propylenimine	10	1
Vinyl chloride	10	1
F002	100	10
K019	10	. 1
K020	10	1
K028	10	1
K029	10	. 1
K096	10	100

The availability of the data on which these adjusted RQs are based was announced in a supplement to the proposed rule published on April 11, 1988 (53 FR 11890). The RQ revisions for 15 of these 18 hazardous substances are based on consideration of new weightof-evidence and potency studies, and revisions to the original potency calculations. 18 The revised RQ profiles for these 15 hazardous substances are available for inspection in the public docket for the March 16, 1987 NPRM. The docket is contained in Room M2427, U.S. EPA, 401 M Street, SW, Washington, DC 20460 (Docket Number 102 RQ-273C). An explanation of the reasons for the potency and weight-ofevidence changes and citations to the studies relied on by the Agency for these changes are provided in the Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 3, available for inspection at the same

ROs for two of the hazardous substances listed in Table 1 (waste streams F002 and K098) have been revised for technical reasons. The Agency today is promulgating an adjusted RQ of 10 pounds for waste stream F002. Although a 100-pound RQ adjustment was proposed for F002 in the March 16, 1987 NPRM, the final RQ adjustment of 10 pounds is consistent with EPA's revised definition of waste stream F002. In a final rule promulgated on December 31, 1985, EPA broadened the definition of F002 to include (in addition to the wastes already listed as constituents of F002) "* * * all spent solvent mixtures/blends containing, before use, a total of ten percent or more

18 These 15 hazardous substances are: acetamide, N-9H-fluoren-2-yl; azaserine; benz(c)acridine; benzotrichloride; chrysene; 1,2-dibromo-3-chloropropane; p-dimethylaminoazobenzene; 3,3'-dimethylbenzidine; N-nitroso-N-ethylurea; 1,2-propylenimine; vinyl chloride; and waste streams K019, K020, K028, and K029.

(by volume) of one or more" of the substances listed in waste streams F001, F004, and F005 (50 FR 53319). In effect, the Agency provided in the December 31, 1985 rule that all substances listed as constituents of waste streams F001, F004, and F005 are included as constituents of waste stream F002 when they are components of these spent solvent mixtures. 19

Carbon tetrachloride is explicitly listed under waste stream F001, and benzene and 2-nitropropane are explicitly listed under waste stream F005.20 Thus, under the policy announced in the December 31, 1985 rule, these three hazardous substances are considered part of the definition of waste stream F002. In this final rule, the Agency is promulgating 10-pound adjusted RQs for carbon tetrachloride, benzene, and 2-nitropropane, as proposed in the March 16, 1987 NPRM. The adjusted RQ for these three substances (10 pounds), therefore, becomes the RQ for waste stream F002.

Although a 10-pound RQ adjustment was not proposed for waste stream F002 in the March 16, 1987 NPRM, 10-pound RQ adjustments were proposed for benzene, carbon tetrachloride, and 2nitropropane. The public has had an opportunity to comment on the proposed RO adjustments for these three constituents of waste stream F002, and on the RQ for F002 in the supplement to the proposed rule (53 FR 11890). No comments were received on the proposed 10-pound RQ for benzene and 2-nitropropane, and the comments received on carbon tetrachloride did not warrant a change in the proposed RQ (see Section II.C.2.e). EPA, therefore, is promulgating an adjusted RQ of 10 pounds for waste stream F002 in this final rule.

As a result of the December 31, 1985 final rule and the RQ adjustments for benzene, carbon tetrachloride, and 2-nitropropane in this final rule, the RQs for waste streams F001, F003, F004, and F005 must also be adjusted to 10 pounds.

18 The change made by the December 31, 1985 rule to the definition of F002, as well as similar changes to the definitions of F001, F003, F004, and F005, allows EPA to regulate more comprehensively certain solvent mixtures. Previously, only high-concentration solvents before use [i.e., pure, technical grade, and practical grade) were covered. For a detailed discussion of the significance of this change and the scope of the revised definitions of waste streams F001, F002, F003, F004, and F005, see 50 FR 53315. December 31, 1985.

The RQ for waste stream F001 is promulgated at 10 pounds, as proposed, in this final rule. RQ adjustments for waste streams F003, F004, and F005 (100, 1000, and 100 pounds, respectively) were promulgated in previous RQ rulemakings (see 50 FR 13501, April 4, 1985, and 51 FR 34544, September 29, 1986). The RQs for these three waste streams will be adjusted to 10 pounds in a future rulemaking.

The RQ for waste stream K096 was erroneously proposed to be adjusted to 10 pounds in the March 16, 1987 NPRM. The lowest RQ of any of the hazardous constituents present in this waste stream is 100 pounds. Therefore, a 100-pound RQ adjustment for waste stream K096 is promulgated in this final rule.

The Agency has decided that available data support application of BHP to acrylonitrile, the remaining substance whose RQ has been revised independent of public comment. The RQ for acrylonitrile was proposed to be adjusted to 10 pounds based on potential carcinogenicity, but its RQ is being promulgated at 100 pounds in this rulemaking due to the application of BHP. Although comments were received on the original 10-pound proposed RQ for acrylonitrile in the March 16, 1987 NPRM, the comments did not address the BHP issue. The final RQ adjustment for acrylonitrile is discussed further in Section II.C.2.a of this preamble.

In addition to these 16 hazardous substances, there is one substance (3,3'-dimethoxybenzidine) for which the basis for the RQ, but not the RQ level, has changed from the proposed to the final rule for reasons independent of public comment.

Although BHP is applied in this rule to raise by one level the RQ for 3,3'dimethoxybenzidine, the RQ for this substance remains at its proposed 100pound level because its primary criteria RQ has been lowered from 100 pounds to 10 pounds based on a potency factor recalculation. After reviewing the studies concerning 3,3'dimethoxybenzidine, EPA has decided that a different study should be used to estimate the potency for this hazardous substance, yielding a medium (10-pound RQ) rather than a low (100-pound RQ) hazard ranking, as proposed. However, 3,3'-dimethoxybenzidine meets the Agency's criteria for applying BHP. With the application of the secondary RQ adjustment criteria of BHP, the final RQ adjustment for this substance is raised one level from its primary criteria level of 10 pounds to 100 pounds.

²⁰ Benzene and 2-nitropropane were added to waste stream F005 by a final rule published on February 25, 1986 (51 FR 6537). The February 25, 1986 rule also added 1,1,2-trichloroethane to F002 and 2-ethoxyethanol to F005, but these two substances are not discussed above because their proposed RQs (100 and 1000 pounds, respectively) do not affect the RQ for waste stream F002.

2. Responses to Comments on Proposed RQs for Specific Substances

a. Acrylonitrile. Two commenters stated that the proposed 10-pound RQ for acrylonitrile should be adjusted upward to 100 pounds, based on assertions that a 10-pound release of acrylonitrile would not result in a government response, and that more recent data on the potential carcinogenicity of acrylonitrile support a 100-pound RQ. The commenters also cited the standard of the Occupational Safety and Health Administration (OSHA) for worker exposure to acrylonitrile of two parts per million (ppm) on an eight-hour time-weighted average.

One of these commenters also argued that the 10-pound proposed RQ for acrylonitrile is contrary to law as interpreted by the U.S. Supreme Court. This commenter stated that the Court's decisions in Industrial Union Department, AFL—CIO v. American Petroleum Institute, 448 U.S. 607 (1980) (the Benzene case) and American Textile Manufacturers v. Donovan, 452 U.S. 490 (1981) (the Cotton Dust case) require that health and safety standards for toxic substances, including potential carcinogens, be designed to alleviate a truly significant risk of harm.

The decisions cited by the commenter are based on the Supreme Court's interpretation of the Occupational Safety and Health Act of 1970 (OSH Act) which requires OSHA to promulgate standards for toxic chemicals that reduce material health impairment to the extent feasible. These decisions do not apply to all Federal regulations that set standards for toxic chemicals. In requiring EPA to promulgate RQ adjustments for hazardous substances under section 102(a) of CERCLA, for example, Congress established a standard for toxic chemical regulations different from the OSHA standard. The CERCLA RQ standard requires EPA to establish a reporting trigger for each hazardous substance, the release of which may present a substantial danger to public health and welfare and the environment. Thus, RQs are relative rankings of the hazards associated with releases of hazardous substances, rather than determinations of absolute levels of risk or permanent health and safety standards (e.g., the OSHA standards). Thus, EPA is required to adjust RQs under the standards set by CERCLA and not those established by the OSH Act.

The Agency also disagrees with the commenter's position that the most recent data on acrylonitrile support a 100-pound RQ based on the primary RQ

adjustment criterion of potential carcinogenicity. The commenter provided no support for this position nor for the assertion that a 10-pound release of acrylonitrile would not result in a government response. An RO is merely a trigger for notification of a release to the OSC, who then decides whether a government response is necessary. The OSC may or may not decide that such a response is needed to protect public health and welfare and the environment from a release of acrylonitrile, depending on the circumstances of the release. As mentioned in Section II.B.2.a of this preamble and in the supplement to the proposed rule [53 FR 11891, April 11, 1988), however, EPA has decided that the data do support application of the secondary RQ adjustment criterion of BHP, resulting in a final RQ adjustment of 100 pounds for acrylonitrile. One commenter on the supplement to the proposed rule supported the 100-pound RQ adjustment for acrylonitrile as consistent with the Agency's BHP methodology and the degradation data on this hazardous substance.

b. Arsenic. One commenter stated that no direct evidence exists that arsenic compounds other than arsenic trioxide and potassium arsenite are carcinogenic. Therefore, according to this commenter, the proposal to treat all arsenic compounds as carcinogenic may be inappropriate.

In the literature on inorganic arsenic, positive tumor incidence is shown in several studies. 21 The Agency has determined that sufficient evidence exists to implicate arsenic and its inorganic compounds as known human carcinogens. Because arsenic is chemically convertible among the various forms, all inorganic forms of arsenic are of equal concern. Accordingly, ranking all hazardous substances containing arsenic on the basis of potential carcinogenicity is appropriate to protect human health and welfare and the environment.

c. Asbestos. One commenter stated that the proposed one-pound RQ for asbestos is "unrealistically low." The commenter argued that because a 24-hour period is used to determine whether an RQ or more had been released (see 50 FR 13463, April 4, 1965), it would be impossible to determine whether the RQ for asbestos had been exceeded under many circumstances. Moreover, the commenter argued, every asbestos cleanup effort, such as in schools or public buildings, would be

subject to reporting if a one-pound RQ for asbestos were promulgated. Finally, the commenter claimed that quarry operations that encounter asbestos formations would be adversely affected by a one-pound RQ.

The Agency recognizes that the detection of a release of one pound or more of asbestos over a 24-hour period may be difficult, given asbestos' fibrous nature and the current state of detection technology. Qualified asbestos contractors conducting abatement activities in conformance with EPA regulations (see 52 FR 15875, April 30, 1987), however, should be able to avoid such releases. Therefore, the Agency does not agree with the assertion that response activities involving asbestos in schools or public buildings routinely will involve releases of asbestos in quantitles that will require Federal notification. At the same time, if such releases of asbestos occur, the OSC should have the opportunity to determine whether a Federal response action may be required.

As stated in previous rulemakings, CERCLA itself does not impose any requirement to test for the release of a hazardous substance (see 50 FR 13463, April 4, 1985). Nevertheless, persons in charge should be aware that failure to test does not mean that there is no requirement to report if the person in charge knows that asbestos has been released in an amount equal to or greater than one pound.

Concerning the possible adverse effect of a one-pound RQ for asbestos on quarry operations, it should be noted that the Agency does not establish different RQs on the basis of different release circumstances. If "continuous" and "stable in quantity and rate," however, releases from quarry operations may qualify for reduced reporting under CERCLA section 103(f)(2) (for further discussion of these reduced reporting requirements, see 53 FR 12868, April 19, 1988).

It should be noted that the RQ for asbestos applies only to releases from friable asbestos-containing materials; releases from nonfriable materials are not subject to the reporting requirements of section 103 of CERCLA.

d. Bis(2-ethylhexyl)phthalate. One commenter stated that because bis(2-ethylhexyl)phthalate (DEHP) is nongenotoxic, its RQ should be based on criteria other than potential carcinogenicity. The commenter also suggested that if the RQ for DEHP is based on potential carcinogenicity, the linear model should not be used to estimate potency (i.e., the dose that would produce an excess risk of cancer)

^{*1} See Health Assessment Document for Inorganic Arsenic, Final Report, EPA 600/8-63-021F, March 1984.

because a threshold dose is required to cause cancer. The commenter supported these assertions by submitting the 1985 report of the Chronic Hazard Advisory Panel (CHAP) commissioned by the Consumer Product Safety Commission.

Whether or not a substance is genotoxic is considered by the Agency in establishing RQs. The evidence submitted by the commenter, however, does not establish conclusively the nongenotoxicity of DEHP. The CHAP report found that "[t]he evidence for tumor initiating activity is inadequate for conclusions to be drawn. Because oral administration of DEHP to rats and mice produces tumors by some mechanism, DEHP or its metabolites must be presumed to have both initiating and promoting activity" (emphasis added). Thus, the commenter's contention that DEHP is nongenotoxic is at odds with the report cited by the commenter. Moreover, DEHP has been shown conclusively to induce tumors in animals, acting either alone or as a synergist. Accordingly, the Agency has determined that the establishment of an RQ for DEHP on the basis of potential carcinogenicity is appropriate.

The Agency also disagrees with the contention that a linear model should not be applied in establishing the RQ for DEHP based on potential

carcinogenicity. Since publication of the March 16, 1987 NPRM, EPA invited scientists from other Federal agencies to discuss interpretation of the potential carcinogenicity studies of DEHP. These government scientists all agreed that a linear model should be applied to DEHP.²² Moreover, the Guidelines for Carcinogen Risk Assessment state that, "[w]hen data and information are limited * * * and when much uncertainty exists regarding the mechanism of carcinogenic action, models or procedures that incorporate low-dose linearity are preferred when compatible with the limited information." (51 FR 33992, September 24, 1986). Because the data on DEHP are limited and are consistent with a linear model, the application of such a model

Guidelines. The commenter also stated that BHP should be applied to raise the RQ for DEHP above its primary criteria level of 100 pounds. As discussed above in Section II.B.2.a of this preamble, however, the Agency has decided not to apply BHP to adjust upward the RQs of

potential carcinogens that are assigned

is appropriate, as provided in the

primary criteria RQs of 100 pounds. Therefore, the RQ for DEHP will remain at 100 pounds, as proposed.

e. Carbon tetrachloride. One commenter objected to the proposed 10pound RQ for carbon tetrachloride, arguing that it would result in a requirement to report a release of less than one gallon of this CERCLA hazardous substance. The commenter noted that EPA's risk estimate for exposure to potential carcinogens normally assumes a 70-year lifetime exposure, whereas the exposure to a 10pound release of a volatile hazardous substance is acute rather than chronic. The commenter claimed that carbon tetrachloride is a low-potency animal carcinogen and poses "no risk to the public health" in amounts between one

and 10 pounds.

EPA disagrees with the commenter that exposure to a hazardous substance resulting from episodic releases is acute rather than chronic, because one-time releases can result in chronic exposure through long-term contamination of environmental media such as ground water. In addition, although the commenter is correct that EPA's analysis assumes a 70-year lifetime exposure, the purpose of the analysis is to establish a relative ranking, not to assess absolute risk, as the commenter mistakenly implies. This analysis is performed in accordance with the Agency's Guidelines for Carcinogen Risk Assessment. Uniform application of these Guidelines is necessary to establish valid relative rankings for all potential carcinogens. After a reexamination of the Agency's analysis of carbon tetrachloride, EPA remains convinced that this hazardous substance was properly classified; therefore, the final RO adjustment for carbon tetrachloride is being promulgated at 10 pounds, as proposed. Likewise, the final RQ adjustment for waste stream F002, which contains carbon tetrachloride as a constituent, is being promulgated today at 10 pounds (see Section II.C.1 of this preamble).

f. Chloroform. Three commenters stated that the proposed 10-pound RQ for chloroform would result in frequent and burdensome reporting of small releases of chloroform incidental to normal manufacturing operations. The commenters urged retention of the statutory 5000-pound RQ. One of these commenters stated that because millions of gallons of process wastewater are handled at bleached paper facilities in the course of their normal manufacturing operations, reportable quantities of chloroform would be released every day that such facilities are in operation.

Congress has provided for reduced reporting of releases of an RQ or more of a hazardous substance that are continuous and stable in quantity and rate. The commenter may wish to evaluate whether the releases of chloroform-containing wastewater qualify for this reduced reporting under CERCLA section 103(f)(2). If the releases meet the criteria set forth in that section (see Section I.A of this preamble for a summary of the criteria), the commenter need only report its releases annually or when there is a statistically significant increase in the amount released. A proposed rule published on April 19, 1988 (53 FR 12868) describes the reduced reporting requirements for continuous releases in greater detail.

The same commenter claimed that EPA data contained in Volume 3 of the **Technical Background Document** overstate the risks associated with chloroform because: (1) The Agency erroneously relied on a National Cancer Institute (NCI) mouse study where chloroform was administered through corn oil, despite data showing that corn oil alters absorption and metabolism of the test substance and acts independently as a tumor promoter; and (2) EPA used a 95-percent upper confidence limit generated by a linearized multi-stage model even though the weight of the evidence

indicates that chloroform is not

genotoxic and, therefore, nonlinearity

should be used in modeling procedures.

The Agency acknowledges that data exist indicating that corn oil may enhance the tumor yield of specific chemical agents in certain cases. In this case, however, the increased tumor incidence in the chloroform-treated animals far exceeded any tumorpromoting effect that reasonably can be ascribed to corn oil. Furthermore, use of corn oil to administer chloroform may have a beneficial effect for predicting human responses, because the corn oil helps to spread the daily chloroform doses over a longer duration which more closely correlates with anticipated human exposure patterns. Accordingly, the Agency believes that it appropriately considered the NCI study noted above in assessing the potential carcinogenicity of chloroform.

The mechanism of chloroform carcinogenicity has not been determined conclusively. Likewise, there is insufficient evidence to conclude that chloroform is nongenotoxic. The Agency disagrees with the assertion that use of a linear model to predict the potency of chloroform is inappropriate for the same reasons stated above in the response to a similar comment regarding DEHP.

²² U.S. EPA "Workshop on DEHP Risk Assessment," Bethesda, MD, April 19-20, 1988.

One commenter argued that chloroform "is extremely biodegradable" and, therefore, should receive a 100-pound RQ based on the application of BHP. The Agency, however, has not identified data on chloroform that support the commenter's assertion, nor did the commenter provide such data.

g. Chromium and chromium compounds. Several commenters objected to the Agency's classification of chromium metal and any form of chromium other than hexavalent chromium as a potential carcinogen. The commenters claimed that the Agency provided insufficient justification for its decision not to differentiate between hexavalent chromium compounds and other chromium compounds. The commenters also claimed that the Agency improperly failed to distinguish between potentially airborne forms of hexavalent chromium and other forms because the predominant evidence supporting the carcinogenicity of hexavalent chromium is based on inhalation studies. Commenters also questioned the potential for exposure to hexavalent chromium. For instance, commenters argued that EPA concluded in its own technical background document for chromium that hexavalent chromium (i.e., chromium (VI)) is readily reduced in the environment to trivalent chromium (i.e., chromium (III)).

The Agency agrees that the carcinogenic chromium (VI) is rapidly reduced to the more innocuous chromium (III) when exposed to the environment. Thus, as mentioned in Section II.B.2.a, the proposed one-pound RQ adjustment for chromium (VI) compounds has been raised to 10 pounds in this final rule based on the application of the secondary RO adjustment criterion of BHP. This change affects the final RQs for 10 hexavalent chromium compounds,23 seven waste streams that contain such compounds as constituents,24 and unlisted hazardous wastes that are EP toxic by virtue of their chromium (VI) constituents, all of whose proposed onepound RQs have been raised to 10 pounds in this final rule. EPA disagrees, however, with the commenter's suggestion that the Agency should distinguish between potential exposure to chromium (VI) compounds through air and through other media. EPA

establishes a single RQ for each hazardous substance, regardless of the medium into which the substance is released.

After reviewing the comments and the technical basis for proposing a one-pound RQ adjustment for chromium metal, the Agency has determined that there is no evidence implicating chromium metal as a potential carcinogen. The Agency also has determined that chromium metal is biologically inert. Accordingly, the final RQ adjustment for chromium metal is being promulgated today at 5000 pounds.

h. Hexachlorobutadiene. One commenter stated that the proposed one-pound RQ for hexachlorobutadiene (HCBD) was inconsistent with the RQ profile document for this substance, which indicated an RO of 100 pounds. The commenter stated that the RQs for HCBD and waste streams K018 and K030 (both of which contain HCBD) should also be adjusted to 100 pounds. The Agency disagrees that the RQ for HCBD should be 100 pounds. Although the RQ profile for HCBD does indicate a 100-pound RQ based on potential carcinogenicity, the aquatic toxicity data for HCBD support a one-pound RQ. The Agency therefore is promulgating final RQ adjustments of one pound for HCBD and waste streams K016 and K030 based on the lowest primary criteria RQ for these substances.

i. Lead and lead compounds. In the March 16, 1987 NPRM (52 FR 8140), EPA proposed 10-pound RQs for lead acetate and lead phosphate based on potential carcinogenicity. As discussed in a second NPRM published on March 2. 1988 (53 FR 6762), the Agency reproposed the RQs for these two substances from 10 pounds to 100 pounds based on additional evaluation of the carcinogenicity of lead metal and lead compounds by the Agency's Human Health Assessment Group, or HHAG (formerly the Carcinogen Assessment Group, or CAG). On November 30, 1988, EPA's Science Advisory Board (SAB) formally requested the opportunity to review the basis for the HHAG's determination that lead and lead compounds are potential carcinogens. EPA has decided to retain the statutory RQs for lead acetate and lead phosphate (5000 pounds and one pound, respectively) pending the completion of SAB review. Final RQ adjustments for these two substances, as well as the public comments on the proposed RQ adjustments for these substances, will be addressed in a future action.

RQ adjustments for three other hazardous substances—lead metal, lead

stearate, and lead sulfide-also were proposed in the March 2, 1988 NPRM. SAB review of the potential carcinogenicity of lead and lead compounds may affect the RQ adjustments for these three substances as well as the RQ adjustments for lead acetate and lead phosphate. Therefore, the statutory RQ for lead metal (one pound), the current adjusted RQ for lead stearate (5000 pounds), and the current adjusted RQ for lead sulfide (5000 pounds) will remain in effect pending completion of SAB review [lead stearate and lead sulfide were assigned final RQ adjustments of 5000 pounds in the September 29, 1986 final rule). The final RQ adjustment for lead metal, the RQ readjustments for lead stearate and lead sulfide, and the public comments on the RQ adjustments for these three substances will be addressed in the future action mentioned above.

In addition, 11 waste streams (K002, K003, K005, K048, K049, K051, K061, K062, K069, K086, and K100) 25 may contain as constituents lead metal and the four lead compounds (lead acetate, lead phosphate, lead stearate, and lead sulfide) whose existing (i.e., statutory or final adjusted) RQs are being retained in this final rule. The existing RQs for two of these substances-lead metal and lead phosphate—are one pound. Because the RQ for a waste stream is the lowest RQ of any of its constituents, the one-pound existing RQs for lead metal and lead phosphate result in onepound RQs for the 11 waste streams that may contain these substances as constituents. Thus, the Agency is retaining the one-pound statutory ROs for these 11 waste streams pending the completion of SAB review of the potential carcinogenicity of lead and lead compounds. Final RQ adjustments for these 11 waste streams will be addressed in the future action mentioned above.

j. Methyl chloride. One commenter objected to the proposed 100-pound RQ for methyl chloride on the basis of both ignitability and potential carcinogenicity. The commenter stated that there is no reasonable possibility that a release of 100 pounds of methyl chloride could create an ignitable condition because this substance diffuses rapidly. The commenter also stated that a Federal response to such a release would never be warranted.

The Agency disagrees. Although it is true that methyl chloride diffuses

²³ These 10 compounds are: ammonium bichromate, ammonium chromate, calcium chromate, chromic acid, lithium chromate, potassium bichromate, potassium chromate, sodium bichromate, sodium chromate, and strontium chromate.

²⁴ These seven waste streams are: waste streams F006, F019, K004, K006, K007, K008, and K050.

²⁵ Comments on the RQs proposed in the March 16, 1987 NPRM for three of these waste streams— K048, K049, and K051—are addressed in Section II.C.2.o of this preamble.

rapidly, as it dissipates it mixes with air, thus increasing the probability of ignition. The Agency also cannot agree that a release of less than 1000 pounds of methyl chloride would never warrant a Federal response. As stated earlier, the likelihood of such a response depends on the circumstances of a release. Accordingly, the Agency is promulgating a final RQ adjustment of 100 pounds for methyl chloride based on both ignitability and, as discussed below, potential carcinogenicity.

The commenter further stated that methyl chloride is nongenotoxic and, therefore, should be ranked for RQ adjustment based on criteria other than potential carcinogenicity. The data cited by the commenter as demonstrating that methyl chloride is not genotoxic, however, do not support the commenter's conclusion. Rather, the data indicate that methyl chloride is a weak genotoxicant that causes a degree of genetic damage. Moreover, methyl chloride has been shown conclusively to induce tumors in animals, acting either alone or as a synergist. Accordingly, the Agency has determined that promulgating an RQ for methyl chloride on the basis of potential carcinogenicity is appropriate.

The commenter also suggested that, if the RQ for methyl chloride is based on potential carcinogenicity, the linear model should not be applied because a minimum dose is required to cause cancer. The Agency disagrees with the argument that use of a linear model to predict the potency of methyl chloride is inappropriate for the same reasons stated above in the response to a similar

comment regarding DEHP.

k. Nickel and nickel compounds. In the March 16, 1987 NPRM, the Agency proposed the following RQ adjustments from the statutory RQs for nickel metal and nickel compounds:

Substance	Statutory RQ	Proposed RQ
Nickel metal	1	1
Nickel ammonium	-	100
sulfate	5000	100
Nickel carbonyl	1	10
Nickel chloride	5000	100
Nickel cyanide	1	10
Nickel hydroxide	1000	10
Nickel nitrate	5000	100
Nickel sulfate	5000	100

The Agency received no comments on the proposed RQ adjustments for nickel carbonyl and nickel cyanide but received several comments on the proposed RQ adjustments for nickel metal, nickel ammonium sulfate, nickel chloride, nickel nitrate, nickel sulfate, and nickel hydroxide. For the reasons

that follow, the Agency is promulgating final RQ adjustments as proposed for all nickel compounds, but is raising the RQ adjustment for nickel metal from the proposed one-pound level to 100 pounds.

Several commenters asserted that the Agency erred in characterizing nickel metal as a potential carcinogen on the basis of epidemiological data from studies of nickel refinery dust because nickel metal, if present at all, is only a minor component of nickel refinery dust.

The proposed one-pound RQ for nickel metal was based on an epidemiological study of nickel refinery workers that indicated a weight-ofevidence Group A classification. The Agency agrees with the commenters that it would be inappropriate to base the RQ for nickel metal on this study because the carcinogenic effects observed can be attributed primarily to nickel compounds such as nickel subsulfide. Therefore, after reviewing its Health Assessment Document for nickel metal, EPA has decided to revise the weight-of-evidence classification of nickel metal from Group A to Group C based on limited animal evidence and inadequate human evidence of nickel metal's carcinogenicity. This change results in a 100-pound final RQ for nickel metal.26

In the March 16, 1987 NPRM, the Agency proposed to adjust the RQs of nickel ammonium sulfate, nickel chloride, nickel nitrate, and nickel sulfate to 100 pounds on the basis of potential carcinogenicity. These compounds are soluble nickel salts that contain nickel (II) ion, which has been implicated as a potential carcinogen on the basis of experimental data from

studies of nickel acetate.

One commenter stated that the Agency improperly relied upon the nickel ion hypothesis as the basis for proposing RQ adjustments for these four nickel compounds. The commenter asserted that the hypothesis is speculative and that the data on the carcinogenicity of the nickel (II) ion relied upon by the Agency to establish its potential carcinogenicity are similar to data on the ions of other metals (e.g., copper, zinc, iron, manganese, cobalt, lead, and mercury) that were not implicated as potential carcinogens. Other commenters stated that no data exist directly implicating soluble nickel salts as potential carcinogens.

The Agency disagrees. Although not all soluble nickel salts have been tested for animal carcinogenicity, there is limited evidence to support the carcinogenicity of nickel acetate. EPA believes that the solubility of nickel compounds affects cellular uptake of the nickel ion, which in turn affects carcinogenesis because the nickel ion is believed to be the ultimate carcinogenic form of nickel, and because (as the commenter acknowledges) the nickel compounds whose RQs are adjusted in this rule all are relatively soluble. In addition, the solubilities of these nickel compounds are not necessarily compound-specific.27 The Agency, therefore, believes that the evidence on nickel acetate supports the hypothesis that the nickel ion is carcinogenic, which in turn justifies the treatment of other soluble nickel compounds as potential carcinogens. The Agency believes that for nickel ammonium sulfate, nickel chloride, nickel nitrate, and nickel sulfate (all soluble nickel salts), there is "limited" evidence of animal carcinogenicity and "inadequate" evidence of human carcinogenicity; these hazardous substances are therefore placed in weight-of-evidence Group C. Because there are no data on which to base potency calculations, they are classified as potency Group 2, providing a hazard ranking of "low." Thus, the RQs of these soluble nickel salts, based on potential carcinogenicity (as well as chronic toxicity), are adjusted to 100 pounds in this rule.

In the March 16, 1987 NPRM, the Agency proposed a 10-pound RQ for nickel hydroxide, a nickel compound that is only slightly water soluble, on the basis of chronic toxicity. There are no chronic toxicity data on this substance; thus, the Agency relied on an analogous substance to adjust the statutory onepound RQ. The surrogate substance chosen was nickel subsulfide, which is slightly less water-soluble than nickel hydroxide. One commenter indicated that the solubility of substances in water is not necessarily analogous to the solubility of substances in body fluids, and that it is the solubility of a compound in biological fluids, not in water, that affects absorption of a compound. The Agency agrees. In the absence of data to the contrary (which is the case here), however, the Agency's policy is to use the closest possible analogy. The Agency, therefore, is basing the 10-pound final RQ adjustment for nickel hydroxide on data from studies of nickel subsulfide.

²⁶ This final RQ for nickel metal, which is based on potential carcinogenicity, is subject to change pending the Agency's analysis of the most recent ignitability data for this hazardous substance.

²⁷ This is in contrast to insoluble nickel compounds, for which the Agency believes that carcinogenicity and other forms of toxicity are compound-specific.

I. Polychlorinated biphenyls. In the March 16, 1987 NPRM, EPA proposed to lower the statutory 10-pound RO for polychlorinated biphenyls (PCBs) to one pound, based on aquatic toxicity (see 52 FR 8147). Several commenters objected to the proposed one-pound RQ adjustment for PCBs on both technical

and policy grounds.

Several commenters suggested that a one-pound RQ for PCBs is inconsistent with other EPA regulations and policies. For instance, commenters argued that a one-pound RQ is duplicative of requirements under the Toxic Substances Control Act (TSCA) for reporting of spills of PCBs in amounts greater than 50 ppm (see 40 CFR 761). These commenters stated that a onepound RQ for PCBs would increase significantly the reporting burden without promoting the Agency's goal of environmental protection. The commenters further claimed that in the PCB regulations under TSCA, the Agency has acknowledged that the normal operation of PCB-containing electrical equipment (which includes routine leaks) does not present an unreasonable risk to human health or the environment.

Reporting of PCB releases under both CERCLA and TSCA is not duplicative because the cleanup authority under the two statutory schemes is different: CERCLA reporting authorizes and ensures timely cleanup of releases by or under the supervision of the Federal government, whereas no explicit Federal cleanup authority exists under TSCA.28 Furthermore, reporting under both CERCLA and TSCA is required very rarely and only with respect to the most serious releases. Under TSCA, spills of more than 10 pounds of PCB-containing material must be reported to the appropriate EPA Regional Administrator (40 CFR 761.125). This reporting requirement is limited to spills of material containing PCBs at concentrations of 50 ppm or greater. Under CERCLA, a release of one pound or more of pure PCBs must be reported to the National Response Center. For CERCLA notification purposes, the CWA mixture rule may be applied. Thus, for example, a release of 15 pounds of transformer fluid known to contain 50 ppm PCBs is generally reportable under TSCA but not under CERCLA. In order for a release of transformer fluid containing PCBs at a

accordance with the standards set in the policy (see

40 CPR 761.125).

under CERCLA, assuming a one-pound RQ for PCBs, the release generally would have to be equal to or greater than 20,000 pounds. Under these extreme circumstances, the Agency does not view a requirement to notify both the National Response Center and the appropriate EPA Regional Administrator as an undue burden.

It is true that, when the concentration of PCBs is unknown, TSCA (as well as CERCLA) requires that a substance be treated as pure PCBs. However, EPA believes that in most cases users of PCB-containing equipment are aware of its PCB concentration levels. Because the use of PCB-containing electrical equipment is authorized only when such equipment contains certain specified concentrations of PCBs (see 40 CFR 761.30), users of such equipment must know its PCB concentrations in order to avail themselves of exemptions from the ban against the use of PCBs (see TSCA section 6(e)) that would otherwise apply. Thus, owners or operators of PCBcontaining equipment should have the information necessary to apply the CWA mixture rule when determining whether a release of PCBs requires reporting under CERCLA. Because most PCB-containing equipment contains PCBs in concentrations much lower than 100 percent, the Agency believes that a one-pound RQ for PCBs will not result in a significant overlap in reporting under CERCLA and TSCA.

In addition, EPA does not believe that its decision to permit the use of PCBcontaining equipment that leaks under normal operating conditions, if the concentration of PCBs is 50 ppm or less. is equivalent to a determination that PCBs do not pose a hazard to human health and welfare and the environment. The regulations promulgated under TSCA balance the need to minimize exposure to PCBs with the costs of removing PCB-containing equipment from service. Although it is true that these regulations (40 CFR 761.30(e)) authorize the use of PCBs in hydraulic systems, such authorization is limited to equipment containing PCBs in concentrations of 50 ppm or less and includes strict handling requirements. Under no circumstances does EPA allow the use of equipment that leaks under normal operating conditions if the equipment contains more than 50 ppm PCBs.

For the reasons discussed above, the Agency has determined that the serious hazards that PCBs pose to human health, welfare, and the environment warrant the one-pound reporting requirement established by this rule.

Several commenters argued that, because PCBs rarely are released directly into surface water, aquatic toxicity is an inappropriate basis for establishing the RQ for PCBs. Moreover, according to these commenters, should such releases occur, there is little chance that PCB concentrations in natural aquatic systems would ever approach levels that are found in the laboratory to be acutely toxic to fish, because of the adsorption of PCBs to sediments and organic matter. Alternatively, commenters suggested that the Agency consider establishing one RQ for releases of PCBs into surface water and a higher RQ for other releases of PCBs.

The Agency disagrees with the assertion that, because releases of PCBs into surface water are rare, the RQ for PCBs should be based on criteria other than aquatic toxicity. Even if most PCB releases occur on land, releases of PCBs into surface water also occur. In addition, PCB releases onto land often are mobilized by surface runoff and flow into water bodies. Such releases also can be carried into ground water and eventually reach sources of drinking water. Moreover, RQs are not intended to reflect the most likely release scenario or the degree of hazard associated with a particular release. Rather, RQ levels serve as threshold levels of notification that, once exceeded, enable the Federal government to determine whether a response is warranted.

The Agency also disagrees with the argument that one RQ should be established for releases of PCBs into surface water and another RQ for releases of PCBs into other media. A single RQ for PCBs will provide a relatively simple reporting system that does not unduly burden either EPA or the regulated community. It should be noted that CERCLA section 102(a) expressly authorizes the Agency to establish a single RQ for each hazardous substance. The legislative history cites simplicity and administrative convenience as reasons why this approach is preferred.29 Moreover, the Agency lacks the resources necessary to obtain the vast quantity of technical data that would be required to tailor RQs to each release situation and, at the same time, to ensure that RQs are consistent, equitable, and sufficiently protective of human health and welfare and the environment.

concentration of 50 ppm to be reportable 26 The Agency's PCB spill cleanup policy under TSCA, however, provides that Agency-imposed penalties can be avoided if a spill is cleaned up in

²⁹ See Senate Report No. 848, 96th Congress, 2d Session 29 (1980).

EPA also disagrees with the statement that concentrations of PCBs lethal to fish achieved in a laboratory setting cannot occur in the environment. One study used by the Agency to establish the RQ for PCBs used raw Lake Superior water. This study therefore duplicated a naturally-occurring environment in the laboratory, including the presence of suspended solids, and still produced toxicity values supporting a one-pound

RQ for PCBs.30

The Agency further believes that the commenters' statements regarding the low water solubility of PCBs and the mitigating effects of adsorption to organic matter and sediments do not invalidate the proposed one-pound RQ. EPA agrees with the commenters that PCBs may adsorb to the surface of organic and inorganic particles. The literature clearly shows that PCBs are strongly adsorbed to certain solid surfaces, including glass and metal surfaces in laboratory apparatus and soils, sediments, and particulates in the environment. PCBs' properties of low water solubility and adsorption do not affect toxicity, however, because it is likely that stable emulsions of PCBs (i.e., stable suspensions of finely dispersed PCBs in water) are created in the environment through the action of naturally occurring emulsifiers (i.e., organic sediments). Such emulsions may be just as threatening to aquatic life forms as PCBs in true solution. Because stable emulsions of PCBs at concentrations that are lethal to newlyhatched fish have been created in the laboratory without emulsifiers, it is likely that such emulsions could form in the environment where natural emulsifiers are present.

Several commenters objected to the studies cited by the Agency in support of the proposed one-pound RQ for PCBs, claiming that they were poorly designed and that they overestimate toxicity because they use acetone, which contributes to toxicity, as a carrier solvent. Commenters cited an aquatic toxicity study to show that when acetone is employed as a carrier for PCBs, it has a confounding effect on efforts to interpret the results from studies of PCB toxicity.31 The primary purpose of the study cited by the commenters, however, was to determine how the presence of acetone affects the growth and uptake of PCBs by lake

trout, rather than how acetone might influence the toxicity of PCBs. The investigators concluded that statistical analyses revealed no significant differences in mortality in the following four treatment groups: (1) A control group; (2) a group that received acetone only; (3) a group that received acetone and PCBs; and (4) a group that received only PCBs.

Because this study found no difference in mortality between groups of fish exposed to PCBs dissolved in acetone and fish exposed to PCBs alone, and because there are data that support the proposed one-pound RQ for PCBs that were derived without using acetone or any other solvent as a carrier,32 the data the Agency used to assign a onepound RO for PCBs are not invalidated by the commenters' argument regarding the use of acetone as a carrier solvent in studies of the aquatic toxicity of PCBs.

One commenter asserted that inadequate data were provided in the studies regarding the actual concentrations of PCBs used in the testing and that the reported concentrations appear to be the result of a single analysis. The Agency disagrees that the data were inadequate. In fact, in the studies, duplicate samples for each test concentration were collected and then analyzed for their PCB concentrations.

Several commenters asserted that most data on aquatic toxicity support a 10-pound RO for PCBs. The reason that the greater quantity of data, viewed in isolation, appears to support a 10-pound RQ is that more tests have been performed on life stages of fish that are less susceptible to the toxic effects of PCBs than on life stages that are more sensitive. Indeed, all of the data from tests performed on newly-hatched fish

support a one-pound RQ.

Several commenters disputed the Agency's reliance on data from tests using early life stages because these stages represent a relatively small portion of a fish's life. Commenters claimed that the Agency incorrectly applied EPA's 1985 National Water Quality Guidelines by using the most sensitive life stage when adjusting the RQ for PCBs. The commenters stated that the Guidelines only require data concerning effects on the most resistant life stage (in this case adult fish) to be rejected when the effects differ by a factor of two or more from effects on the most sensitive life stage (juvenile fish), and that this does not appear to be the case with PCBs.

32 Birge, W.J. et al., 1979. Toxicity of Organic Chemicals to Embryo-Larval Stages of Fish, Ecological Research Service, EPA 560/11-79-007.

EPA disagrees with the argument that the RO for PCBs should not be based on the most sensitive life stage of fish. From the standpoint of population survival, the individuals of greatest value are those that have not yet reached reproductive maturity and those that are capable of reproducing. Individuals no longer capable of reproducing do not significantly influence the survival of the species or the local population. On the other hand, early life stage individuals will mature into reproductive adults and produce new generations. Therefore, protection of the juvenile life stages of fish is of critical importance to the environment.

Moreover, in the Guidelines, EPA states the circumstances under which data from tests using the most resistant life stages should not be used. The Guidelines allow the use of data from tests using the least resistant life stage even when such data differ by less than a factor of two from other data on the same species. In fact, in the Guidelines, the Agency encourages the use of data from tests using sensitive species and sensitive life stages (see the Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses, pp. 24 and 29, NTIS Document #PB85-227049, January 1985). In addition, the acute aquatic toxicity literature on PCBs does, in fact, contain at least one study that meets the Guidelines' criteria for rejecting the most resistant life-stage data (i.e., the data indicate that toxicity values are two times greater for the most sensitive life stage than for the

most resistant).33

One commenter argued that it is inappropriate to base the RQ for PCBs, in part, on the fact that PCBs are bioaccumulative insoluble sinkers. This commenter also stated that recent data indicate that PCBs are dechlorinated in sediments by anaerobic bacteria, rendering them less hazardous. Another commenter argued that not only is the proposed downward RQ adjustment for PCBs inappropriate on the basis that PCBs are bioaccumulative insoluble sinkers, but these properties actually make releases of PCBs less hazardous. This commenter's statement is premised upon the claimed tendency of bioaccumulative insoluble sinkers "to adsorb to particulates and sediments, * * [to] have low bioavailability to organisms from the dissolved phase, and * [to] remain with the sediments, even if spilled as pure compounds." Therefore, according to this commenter,

"the fact that PCBs are insoluble sinkers

30 See Nebeker et al., 1974. Effect of

Polychlorinated Biphenyl Compounds on Survival and Reproduction of the Fathead Minnow and Flagfish. Trans. Am. Fish. Soc. 103:562.

³¹ See Mac, M.J. et al., 1981. Potential Influence of Acetone in Aquatic Biosassays Testing the Dynamics and Effects of PCBs. Buil. Env. Contam. Toxicol. 27:359

ss Ibid.

acts as a protective mechanism compared to chemicals that are more soluble in water" (emphasis in original). Furthermore, the commenter argued, the tendency of PCBs to bioaccumulate also results from the fact that PCBs generally are metabolized relatively slowly. Therefore, bioaccumulation per se does not represent an adverse health effect and is not predictive of adverse health effects on aquatic organisms.

The Agency disagrees. An insoluble chemical that sinks in water (such as PCBs) can accumulate in a way that slowly contaminates the surrounding water, perhaps over a period of years. Therefore, a release of PCBs that is not remedied could cause gradual long-term environmental damage. The dechlorination data cited by the commenter and mentioned above provide no information concerning the rate at which dechlorination of PCBs occurs in the environment. In the absence of data indicating that PCBs degrade at a rate sufficient to meet the criteria for application of BHP, the Agency will not apply BHP to raise the RQ for PCBs. The degree of hazard posed by the bioaccumulation of PCBs contributed to the Agency's decision to rely on data from studies of early life stages, in accordance with the Agency's 1985 National Water Quality Guidelines mentioned above. The primary basis for the RQ of PCBs, however, is toxicity to aquatic organisms. For these reasons, the Agency does not agree with the commenter that the physical properties of PCBs will serve to protect the environment in all release circumstances.

None of the public comments received on the proposed one-pound RQ adjustment for PCBs warrants a different final RQ adjustment.

Accordingly, the Agency is promulgating a final adjusted RQ of one pound for PCBs in this rule.

m. Trichloroethylene. Two commenters stated that EPA's classification of trichloroethylene as a potential carcinogen is contrary to the findings of the Agency's Science Advisory Board (SAB) that the bioassay data for this substance constitute only limited evidence of animal carcinogenicity and are inadequate for the evaluation of human cancer risk.

In March 1988, the SAB, commenting on EPA's 1987 risk-assessment for trichloroethylene, stated that the weight of evidence for male mouse hepatocellular carcinoma indicates a range between Group C and Group B2.

In the Technical Background Document for the March 16, 1987 NPRM (Technical Background Document to Support Rulemaking Pursuant to CERCLA Section 102, Volume 3, December 1986), EPA noted that trichloroethylene was classified as a weight-of-evidence Group B2 substance because of "sufficient" evidence of carcinogenicity from animal studies. Because of its Group 3 potency ranking, trichloroethylene received a low hazard ranking and a 100-pound proposed RQ. The Agency's most recent draft updated assessment for trichloroethylene (June 1987) provides additional support for a Group B2 classification. This B2 classification is consistent with the SAB's finding that the weight of evidence for trichloroethylene indicates a range between Group C and Group B2. However, it is important to note that EPA's classification for trichloroethylene is based on a draft carcinogenicity assessment that has not yet been finalized. If this classification changes based on the final assessment. and the change warrants an adjustment of the RQ for trichloroethylene, the RQ will be adjusted in a future rulemaking. Pending the results of EPA's final carcinogenicity assessment, a 100-pound RQ for trichloroethylene is promulgated in this rule based on a weight-ofevidence Group B2, potency Group 3 determination.

n. Vinyl chloride. The 10-pound RQ for vinyl chloride originally proposed in the March 16, 1987 NPRM was revised to one pound in a supplement to the proposed rule published on April 11, 1988 (53 FR 11890). One commenter on the supplement to the proposed rule suggested that EPA promulgate a 10pound rather than a one-pound RQ for vinyl chloride because the epidemiological studies that support the one-pound RQ used "extremely high concentrations" of vinyl chloride. The commenter also noted that since the studies were performed, workplace exposure to vinyl chloride has been lowered substantially. The commenter further claimed that the lower onepound reporting trigger is unjustified because plant personnel who should be free to clean up small releases of vinyl chloride will instead be required to spend time discussing these releases on the telephone.

EPA disagrees with the commenter on each of these points. Vinyl chloride has been shown to produce a significantly increased incidence of brain, lung, liver, and kidney tumors in studies of three different animal species. Similar carcinogenic effects have been observed in epidemiological studies of workers exposed to vinyl chloride. Although evidence of the carcinogenic effect of vinyl chloride in humans has come from studies of workers exposed to high doses of vinyl chloride, there is no

evidence of an exposure level below which no increased risk of cancer would occur in humans.34 Thus, neither the high doses during the period over which these epidemiological studies were performed nor any subsequent reduction in these doses negates the positive carcinogenic effects of vinyl chloride. EPA also disagrees with the commenter's suggestion that the requirement to notify the National Response Center by telephone of a release of vinyl chloride in an amount equal to or greater than one pound interferes with any efforts the person in charge may make to prevent a further release. EPA encourages plant personnel to take any appropriate measures to minimize releases of hazardous substances. While skilled personnel are working to stop a release, the management of the organization may designate any other employee to communicate information about the release to the National Response Center. As a practical matter, then, the obligation to make a telephone report of the release of an RQ or more of a hazardous substance should not divert resources from cleaning up an existing release or preventing a further release.

o. Waste streams. One commenter stated that an error was made in the Agency's derivation of RQs for the pentachlorophenol-containing waste streams F021, F027, and F028, because the Agency wrongly indicated that 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) is present in these waste streams. The commenter stated that this dioxin isomer does not occur in the production of pentachlorophenol and, therefore, would not be present in these waste streams.

The Agency disagrees. Although studies analyzed by the Agency do not indicate that 2,3,7,8-TCDD is contained in waste stream F021, isomers of a closely related substance, hexachlorodibenzo-p-dioxin, are hazardous constituents of this waste stream as set forth in Appendix VII of 40 CFR 261. The Agency has determined that when there are hazardous constituents of a RCRA waste stream that are not CERCLA hazardous substances, an RQ should be developed for these constituents in order to assign an appropriate RQ to the waste stream (see 48 FR 23565, May 25, 1983). In other words, the Agency derives the RQ for waste streams based upon the lowest RQ of all of the hazardous constituents,

²⁴ IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, 1979, Volume 19, pp. 377–437, cited in the Fourth Annual NTP Report (1985).

regardless of whether they are CERCLA hazardous substances. The "reference RQ" developed for non-CERCLA substances is for ranking purposes only; no releases of such substances need to be reported to the National Response Center. Isomers of hexachlorodibenzo-p-dioxin would have an RQ of one pound based on their mammalian toxicity. Accordingly, the RQ of waste stream F021 is adjusted to one pound in this final rule.

Waste stream F027 and waste stream F028 contain 2,3,7,8-TCDD as well as hexachlorodibenzo-p-dioxins and tetrachlorodibenzo-p-dioxins and tetrachlorodibenzo-p-dioxins

One commenter disputed the Agency's proposal to assign an adjusted RQ of one pound to waste streams K016 and K030. Relying on the potential carcinogenicity profile for hexachlorobutadiene (a constituent of these waste streams), the commenter stated that the "low" hazard ranking for this substance corresponds to an RQ of 100 pounds. Therefore, the commenter suggested, the RQ of these waste streams should be adjusted to 100 pounds.

The Agency disagrees. The RQ for hexachlorobutadiene is based on aquatic toxicity data that support a one-pound RQ. Because hexachlorobutadiene has the lowest RQ of all the constituents in these waste streams, the adjusted RQs for waste streams K016 and K030 are being promulgated today at one pound.

Another commenter stated that the proposed one-pound RQs for waste streams K048, K049, K050, and K051 are unnecessarily low, because a release of 2000 pounds of these waste streams would have to occur before the RQ of one pound for chromium (VI) or lead metal (the constituents on which the RQs for these waste streams are based, according to the commenter) would be exceeded. The commenter suggested that EPA establish an RQ of 1000 pounds for these four waste streams. The Agency disagrees with the suggestion that the proposed one-pound RQs for these waste streams should be raised to 1000 pounds.

With respect to waste stream K050, the commenter is mistaken that the RQ is partially based on the RQ for lead metal: the Agency has determined that waste stream K050 does not contain lead metal or lead compounds. Rather, the RQ for this waste stream is based solely on the RQ for chromium (VI) compounds. Because the RQ for chromium (VI) compounds is being raised from the proposed one-pound level to 10 pounds in this final rule (see Section II.B.2.a of this preamble), the RQ for waste stream K050 also is promulgated at 10 pounds. Following the CWA mixture rule, if the concentration of chromium (VI) compounds in this waste stream is known, reporting is required when a quantity of 10 pounds or more of chromium (VI) compounds is released. In the absence of such knowledge, reporting is required when an RQ (10 pounds) or more of waste stream K050 is released.

With respect to waste streams K048, K049, and K051, EPA disagrees that the proposed RQs for these waste streams were based on the RQs for lead metal and lead compounds. Rather, the RQs for these waste streams were proposed at one pound in the March 16, 1987 NPRM based on the proposed one-pound RQ for chromium (VI) compounds. As explained in Section II.B.2.a of this preamble, the final RQ for chromium (VI) compounds has been adjusted upward one level to 10 pounds based on the application of BHP.

Also, as explained in Section II.C.2.i of this preamble, EPA has decided since publication of the March 16, 1987 NPRM to retain the current adjusted RQs for lead stearate and lead sulfide (5000 pounds) and the statutory RQs for lead metal (one pound), lead phosphate (one pound), and lead acetate (5000 pounds). Therefore, the Agency has decided to retain the statutory one-pound RQs for waste streams K048, K049, and K051 along with the other eight waste streams that contain lead metal or lead compounds.²⁵

Of course, if the concentrations of the constituents of the waste stream are known, the CWA mixture rule may be applied. The commenter has stated that 2000 pounds of waste streams K048, K049, and K051 would have to be released before an RQ of chromium (VI) compounds is reached. Thus, the commenter apparently knows the concentrations of chromium (VI) compounds in these waste streams. If the concentrations of the constituents of a waste stream are known, reporting is required only when an RQ (e.g., 10 pounds for chromium (VI) compounds) or more of one of these constituents is released. If the concentrations of the constituents are not known, reporting is

35 These eight waste streams are: K002, K003, K005, K061, K062, K069, K066, and K100.

required when an RQ or more of the waste stream is released (one pound for waste streams K048, K049, and K051).

One commenter believed that the 10-pound RQ for waste stream F002 proposed in the April 11, 1988 supplement (see 53 FR 11890 and the discussion in Section II.C.1 above) represents an incorrect interpretation of EPA's December 31, 1985 final rule (50 FR 53315). The commenter stated that the Agency had rejected the approach of consolidating waste streams F001, F002, F004, and F005 into a single listing in that rule.

EPA disagrees that the Agency's interpretation of the reporting requirements for waste stream F002 discussed in the April 11, 1988 supplement (and summarized in Section III.C.1 above) is incorrect. On April 30, 1985 (50 FR 18378), EPA proposed to delete waste streams F002 through F005 and to modify waste stream F001 to include all hazardous constituents previously listed under waste streams F001 through F005. The purposes of this proposed action were to simplify recordkeeping and avoid confusion regarding the appropriate waste number to use for reporting solvent mixtures containing several listed solvents.

Commenters on the April 30, 1985 proposed rule indicated that the proposed change would increase compliance costs and cause confusion in recordkeeping. As a result, the Agency retained the original listings for waste streams F001–F005, but modified their definitions to include mixtures containing, before use, one or more of the solvents listed under the other waste numbers.

When assigning an RQ to a waste stream, the Agency considers the RQ of the constituents of the waste stream (48 FR 23565, May 25, 1983). The Agency determines the RQ of each waste stream constituent and assigns the lowest of these to the waste stream itself. Because, by virtue of the December 31, 1985 final rule, the definitions of waste streams F001-F005 now include mixtures of solvents that contain one or more solvents listed under the other waste numbers, the Agency must consider the ROs of these other solvents when determining the RQs for waste streams. To determine the appropriate RO for waste stream F002, the Agency considers not only RQs of the solvents listed under F002, but also the RQs of those solvents listed under waste streams F001, F004, and F005. Because waste streams F001 and F005 contain solvents that have 10-pound RQs, the RQ for waste stream F002 is 10 pounds.

If the concentrations of the hazardous constituents of waste stream F002 are unknown, reporting is required when 10 pounds or more of F002 is released. If the concentrations of all of the constituents are known, reporting is required only when an RQ or more of one of the individual constituents is released.

The commenter further suggested that when a waste contains constituents listed under more than one waste stream, the waste has "dual listing status." The commenter used as an example of a spent solvent containing five percent benzene and five percent chlorobenzene. The commenter claimed that such a waste "would have both F005 and F002 listing status," and therefore would have an RQ of 10 pounds. The Agency agrees that the waste described by the commenter would have a 10-pound RQ, but disagrees with the commenter's reasoning. First, a single waste cannot be listed under more than one waste number (e.g., F002 and F005). If the person in charge knows the concentrations of two constituents in a waste, as in the example provided, the CWA mixture rule should be applied to determine the appropriate RQ. Because benzene has a 10-pound final RO and chlorobenzene has a 100-pound final RQ, reporting is required when 10 pounds or more of benzene or 100 pounds or more of chlorobenzene is released.

After promulgation of this final rule. the RQs for the five mixed solvent waste streams will be: F001-10 pounds, F002-10 pounds, F003-100 pounds, F004-1000 pounds, and F005-100 pounds. As described above in Section III.C.1, the Agency intends to adjust RQs for waste streams F003, F004, and F005 to 10 pounds in a future rulemaking. When 10-pound RQs are promulgated for all of these waste streams, releases of mixtures of any of the solvent constituents will be required at or above the 10-pound level when the concentrations of the solvents are unknown.

D. Update on Methyl Isocyanate.

EPA initially proposed to adjust the statutory one-pound RQ for methyl isocyanate (MIC) to 100 pounds in the May 25, 1983 NPRM. After the December 3, 1984 release of MIC in Bhopal, India and the resultant loss of human life, EPA withdrew this proposed RQ adjustment in the April 4, 1985 final rule (50 FR 13456) and retained the statutory one-pound RQ, pending further analysis of the data on MIC.

In a March 2, 1988 proposed rule (53 FR 6765), the Agency announced that it

had obtained additional toxicological data on MiC, including new animal studies documented in Environmental Health Perspectives, Volume 72, and that it was awaiting human toxicological and epidemiological data associated with the release of MiC in Bhopal. The Agency stated in the March 2, 1988 NPRM that it has decided to retain the statutory one-pound RQ for MiC pending completion of this analysis, rather than propose an RQ adjustment without first completing a thorough evaluation of the human toxicity data.

III. RQ Ajustments Under CWA Section 311

In the April 4, 1985 final rule (50 FR 13456), EPA amended 40 CFR 117.3 to make RQs adjusted under CERCLA the applicable ROs for notification of discharges of hazardous substances pursuant to CWA section 311. Thus, the RQ adjustments contained in this rulemaking apply to both CERCLA and CWA section 311 RQs. Of the 187 individual hazardous substances in this rulemaking, 67 were originally listed as hazardous substances and assigned RQs under section 311 of the CWA. The final RQ adjustments promulgated today lower the statutory CWA RQs of 52 of these substances, raise the statutory RQs of two of the substances, and leave the RQs of 13 of the substances at the statutory level. RQs under both CERCLA and the CWA are set forth in Table 302.4. Where there is a release of a hazardous substance into navigable waters, a single report to the National Response Center by the person in charge will satisfy the notification requirements of both statutes. For further discussion of the relationship between CERCLA RQs and CWA section 311 RQs, see the preambles to the May 25, 1983 proposed rule (48 FR 23569) and the April 4, 1985 final rule (50 FR 13473).

IV. Delisting of Ammonium Thiosulfate as a Hazardous Substance

On March 7, 1986, Kerley Industries, Inc. filed a petition requesting the Agency to delist ammonium thiosulfate as a hazardous substance under section 311 of the CWA, and, as a result, also under section 101(14) of CERCLA. Kerley Industries stated that the classification of ammonium thiosulfate as a hazardous substance under the CWA was based on aquatic toxicity by inference from an inappropriate reference compound, ammonium sulfite. Kerley further claimed that the toxicological test data on other more closely related alkali metal thiosulfate salts indicate that the thiosulfate chemical family is physiologically innocuous.

Based on the available information, the Agency in the March 2, 1988 NPRM (see 53 FR 6766) determined that ammonium thiosulfate does not meet the listing criteria for aquatic toxicity, and, therefore, proposed to delist ammonium thiosulfate as a hazardous substance under section 311 of the CWA, 40 CFR 116.4, and 40 CFR 117.3. As a result of the delisting under section 311, the substance would be a "hazardous substance" under section 101(14) of CERCLA only by virtue of its designation under section 102 of CERCLA (section 101(14)(B)). In the March 2, 1988 NPRM, EPA solicited public comments with supporting data on whether ammonium thiosulfate should be delisted as a hazardous substance under the CWA and CERCLA.

All of the commenters who addressed the ammonium thiosulfate issue supported EPA's proposed delisting of ammonium thiosulfate as a hazardous substance. Five commenters stated that the current classification of ammonium thiosulfate as a hazardous substance has resulted in increased insurance costs to transport this substance. Four commenters suggested that toxicological data derived from tests conducted on ammonium thiosulfate demonstrate that the LC50 for the substance is well above the 500 mg/l for aquatic toxicity—the threshold listing criterion under the CWA. EPA agrees with the commenters that ammonium thiosulfate does not meet the listing criteria for aquatic toxicity. In addition, the Agency has analyzed ammonium thiosulfate under the primary criteria other than aquatic toxicity and determined that there is no independent basis for listing this substance as hazardous under CERCLA section 102. Therefore, EPA is revoking in this rule its listing of ammonium thiosulfate under CWA section 311, 40 CFR 116.4, and 40 CFR 117.3 and its designation as a CERCLA hazardous substance under section 102(a) of CERCLA and 40 CFR 302.4(a).

V. Replacement of the Registered Trademark, "Kelthane," With the Generic Name, Dicofol

In response to a July 28, 1987 petition from Rohm and Haas Company, EPA today is changing the registered trademark, "Kelthane," to the generic name, dicofol in Table 118.4 of 40 CFR Part 116, Table 117.3 of 40 CFR Part 302. The term Kelthane is on these lists because it originally was listed as a hazardous substance under section 311 of the CWA. Kelthane has been assigned a final adjusted RQ of 10 pounds (50 FR

13489, April 4, 1985). The Agency believes that listing this hazardous substance by its generic or chemical name is appropriate because there are companies other than Rohm and Haas that manufacture or generate dicofol. This listing by generic name (dicofol) should reduce the likelihood that Rohm and Haas would be considered liable under section 107(a) of CERCLA for releases of this hazardous substance into the environment for which it is not responsible.

VI. List of Hazardous Substances and Adjusted RQs

The following table lists the RQ adjustments for the hazardous substances whose RQs are being adjusted in this final rule.

TABLE 2.—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

Hazardous Substance	CASRN	Final RQ Pounds (Kg)
Acetaldehyde, trichloro-	75876	5000 (227)
Acetamide, N-(4-ethoxyphenyl)-	62442	100 (45.4
cetamide, N-9H-fluoren-2-yi	53963	1 (0.454
-Acetylaminofluorene.	53963	1 (0.454
crylonitrile	107131	100 (45.4
Ndrin	309002	1 (0.454
vnitrole	61825	10 (4.54
Ammonium bichromate	7789095	10 (4.54
Ammonium chromate	7788989	10 (4.54
vocior 1016		1 (0.454
vroclor 1221	11104282	1 (0.454
vroclor 1232	11141165	1 (0.454
vrocior 1242	53469219	1 (0.454
vocior 1248.	12672296	1 (0.454
roclor 1254	11097691	1 (0.454
roclor 1260	11096825	1 (0.454
vrsenic ††	7440382	1 (0.454
NOCINC	7440302	1 (0.454
vrsenic acid	1327522	UPA COMPANY
constructed and 1973-04	7778394	Comment of the second
Arsenic acid H3AsO4	1327522	
was a second	7778394	1 (0.45
rsenic disulfide		1 (0.45
rsenic oxide As2O3	1327533	1 (0.45
rsenic oxide As2O5		1 (0.45
rsenic pentoxide		1 (0.45
rsenic trichloride	7784341	1 (0.45
rsenic trioxide	1327533	1 (0.45
vrsenic trisulfide	1303339	1 (0.45
rsine, diethyl-	692422	1 (0.454
visinic acid, dimethyl		1 (0.454
vsonous dichloride, phenyl	696286	1 (0.454
sbestos †††	1332214	1 (0.454
wramine	492808	100 (45.4
vzaserine	115026	1 (0.454
ziridine	151564	1 (0.454
ziridine, 2-methyl-	75558	1 (0.454
zirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione,6-amino-8-[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-	Salahia September	Beth will said to
methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]-	50077	10 (4.54
enz[j]aceanthrylene, 1,2-dihydro-3-methyl-	56495	10 (4.54
Penz[c]acridine	225514	100 (45.4
enz[a]anthracene	56553	10 (4.54
2-Benzanthracene	56553	10 (4.54
enz[a]anthracene, 7,12-dimethyl	57976	1 (0.454
lenzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl-	492808	100 (45.4
enzenamine, 4-chloro-2-methyl-, hydrochloride	3165933	100 (45.4
Penzenamine, 2-methyl-	95534	100 (45.4
Senzenamine, 4-methyl-	106490	100 (45.4
lenzenamine, 4,4'-methylenebis(2-chloro-	101144	10 (4.5
enzenamine, 2-methyl-, hydrochloride	636215	100 (45.
enzenamine, 2-methyl-5-nitro-	99558	100 (45.
lenzenamine, N,N-dimethyl-4-(phenylazo)-	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 (4.5
	74400	10 (4.5
enzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-,ethyl ester		10 (4.5
lenzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-		10 (4.5
enzene, chloromethyl-	100447	100 (45.
enzenediamine, ar-methyl-	95807	100 (100)
State Control of the	496720	opposite the first
	823405	Commence of the last
	25376458	10 (4.5
,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	117817	100 (45.
		1 (0.45
lenzene, 1, 1'-(2, 2-dichloroethylidene) bis [4-chloro-		
lenzene, hexachloro-		10 (4.5
lenzene, 1-methyl-2,4-dinitro-		10 (4.5
lenzene, 2-methyl-1,3-dinitro-		100 (45.
lenzene, pentachloronitro- lenzene,1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-		100 (45.4
		1 (0.45

TABLE 2.—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	CASRN	Final RQ Pounds (Kg)
Berzidine Berzidine	92875	1 (0.454
Denzgla Janun acene	E8550	10 (4.54
1;3-Berizodioxore, p-(2-propenyi)-	04507	100 (45.4
Trio-perizodioxole, p-(1-propenyl)	120581	100.(45.4
Tip-Derizodioxore,5-propyi-	0/1586	10 (4.54
Delizofo Jildorantiene	205002	1 (0.454
Benzo(k)fluoranthene	207089	5000 (2270
Bergo[a]pyrene	189559	10 (4.54
Benzo[a]pyrene	50328	1 (0.454
Benzotrichloride	50328	1 (0.454
1,2-Benzphenanthrene	98077	10 (4.54
Benzyl chloride	100447	100 (45:4 100 (45:4
iseryillum *	7,440,417	10 (4.54
tserymum chloride	7787475	1 (0.454
beryillum dust *	7440417	10 (4.54
Deryillum huonge	7797407	1 (0.454
Beryllium nitrate	13597994	1 (0.703)
	7797555	1 (0.454
alpha—BHC.	31084B	10 (4.54
Deta-BHC	319857	1 (0.454
garnma—BHG	58889	1 (0.454)
z _c c.d(0xirane	1464595	10 (4.54
(1) -bphenyl)-4,4 diamine	92875	1 (0.454)
(1,1-biphenyi)-4,4 distrine,3.3 dichloro-		1 (0.454)
(1) 1-10 (Dienyi)-4,4 Ciamine,3.3 cimetnoxy-	110004	100 (45.4)
(1,1:Diphenyl)-4,4 -Diamine,3,3 -dimetryl	110027	10 (4.54)
Bis(2-chloroethyl) ether	. 111444	10 (4.54)
Bis(2-ethylhexyl) phthalate	117817	100 (45.4)
1,3-Butadiene, 1,1,2,3,4,4-bexachloro	87683	1 (0.454)
1-Butanamine, N-butyl-N-nitroso- 2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-		10 (4:54)
yl ester, [1S-[1alpha(Z),7(2S*,3R*),7aalpha]]-	. 303344	10 (4.54)
Cacodylic acid	. 75605	1 (0.454)
Cadmium 1	. 7440439	10 (4.54)
Cadmium acetate	543908	10 (4.54)
Cadmium bromide	7789426	10 (4.54)
Caldmium chloride	10108642	10 (4.54)
Caldium arsenite	7778441	1 (0.454)
Calcium chromate	52740166	1 (0.454)
Camphene, octachloro-	13765190	10 (4.54)
Garbarnic acid, ethyr ester	E4700	1 (0.454)
Odradnic aciu, metnyinkroso-, etnyi ester	615522	100 (45.4)
Odradinic Chiche, Onnethy	79(1/4/47)	1 (0.454)
odi parifoti foto della, disti i-metrivietrivit-, biz.3-dienioro-2-propenvi) ester	2202184	100 (45.4)
oargon tetrachionge	20002	10 (4.54)
OFFICIAL	75976	5000 (2270)
CHICF AFFICUCII	905033	10 (4:54)
CITOLIGENE	57740	1 (0.454)
ornordane, alpha a gamma isomers	E7740	1 (0.454)
onordane, recinidal	57749	1 (0.454)
Onionaphazine	494031	100 (45.4)
Chlorobenzilate	510156	10 (4.54)
Chloroform	67663	10 (4.54)
Chloromethyl methyl ether	107302	10 (4.54)
I-Chloro-o-toluidine, hydrochloride	3165933	100 (45.4)
Phremic acid	11115745	10(4.54)
	7738945	
Chremic acid H2CrO4, całcium salt	. 13765190	10 (4.54)
SHOTHOUT The contract of t	7440473	5000 (2270)
7 (1) GOOD (C	218019	100 (45.4)
ZONG OVER CHRISTON	N.A.	1 (0.454)
// SOSON	8001589	1 (0,454)
Aprilo accide scrifte	. 12002038	1 (0.454)
A solution of the state of the	58899	1 (0.454)
to by droper reddene, 1,2,6,4,5,5-nexacritoro-	77474	10 (4.54)
y viopricopriating and a second secon	50100	10 (4.54)
Auditionity Cit I	20830813	10 (4.54)
DDD	72548	1 (0.454)
y t weekly minimum and the second an	72548	1 (0.454)
IDE	72559	1 (0.454)
,4'-DDE	72559	1 (0.454)
DDT	50293	1 (0.454)
latte	50293	1 (0.454)
Diallate	2303164	100 (45.4)
	53703	1 (0.454)

TABLE 2.—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	CASRN	Final RQ Pound (Kg)
Dibenzo[a,h]anthracene	53703	1 (0.45
Dibenzo[a,1]pyrene	189559	10 (4.5
,2-Dibromo-3-chloropropane	96128	1 (0.45
,3 Dichlorobenzidine		1 (0.45
2-Dichloroethane	- FORTHER DE CO.	100 (45
,1-Dichloroethylene		100 (45
Dichloroethyl ether		10 (4.5
Dichloromethyl ether		10 (4.5
Dichlorophenylarsine		1 (0.45
Dicofol		10 (4.5
Dieldrin	60571	1 (0.45
2:3,4-Diepoxybutane.	1464535	10 (4.5
iethylarsine		1 (0.45
I,N'-Diethylhydrazine		10 (4.5
iethylstilbestrol		1 (0.45
ihydrosafrole		10 (4.5
	309002	1 (0.45
(1aaipha, 2beta, 2aalpha, 3beta, 6beta, 6aaipha, 7beta, 7aaipha)-	60571	1 (0.45
3'-Dimethoxybenzidine		100 (45
imethylaminoazobenzene		10 (4.5
12-Dimethylbenz[a]anthracene		1 (0.45
3 - Dimethylbenzidine	. 119937	10 (4.5
methylcarbamoyl chloride	. 79447	1 (0.45
1-Dimethylhydrazine		10 (4.5
2-Dimethylhydrazine		1 (0.45
imethyl sulfate	77781	100 (45
initrotoluene	25321146	10 (4.5
3,4-Dinitrotoluene	610399	
4-Dinitrotoluene	121142	10 (4.5
6-Dinitrotoluene	606202	100 (45
2-Diphenylhydrazine	122667	10 (4.5
-n-propylnitrosamine		10 (4.
pichlorohydrin		100 (45
thanamine, N-ethyl-N-nitroso-	. 55185	1 (0.45
thane, 1,2-dibromo-		1 (0.4
thane, 1,2-dichloro-	. 107062	100 (45
thane, hexachloro-	67721	100 (45
thane, 1,1'-oxybis[2-chloro-		10 (4.5
thane, pentachioro-	76017	10 (4.5
thane, 1,1,1,2-tetrachloro-	. 630206	100 (45
thane, 1,1,2,2-tetrachloro-	79345	100 (45
thanethioamide		10 (4.
thane, 1,1,2-trichloro-		100 (45
thanol, 2,2'-(nitrosoimino)bis-		1 (0.4
thenamine, N-methyl-N-nitroso-		10 (4.
thene, chloro-		1 (0.4)
thene, 1,1-dichloro-		100 (45
thene, trichloro-		100 (45
thyl carbamate (urethane)		100 (45
thylene dibromide	106934	1 (0.4)
thylene dichloride	107062	100 (45
hylenethicurea		10 (4.
hylenimine		1 (0.4
thy! methanesulfonate	2000000	1 (0.4
ormaldehyde		100 (45
Glucose, 2-deoxy-2-[[(methylnitrosoamino)carbonyl]amino]-		1 (0.4
ycidylaldehyde		10 (4.
uanidine, N-methyl-N'-nitro-N-nitroso-	E-21/22	1 (0.4
eptachlor enovide		1 (0.4
eptachlor epoxide		10 (4.
exachlorobenzene	0 1 2 2 2 2 2	1 (0.4
exachiorobutadieneexachiorocyclohexane (gamma isomer)	(A) 22222	1 (0.4
		10 (4
exachlorocyclopentadieneexachloroethane		100 (4
/drazine	1000000	1 (0.4
		10 (4
/drazine, 1,2-diethyl		10 (4
ydrazine, 1,1-dimethyl-	F.40700	1 (0.4
ydrazine, 1,2-dimethyl-	400007	10 (4.
ydrazine, 1,2-diphenyl-		10000000000
Imidazolidinethione.		10 (4
deno[1,2,3-cd]pyrene	400504	100 (4
osafrole	2	100 (45
epone	000044	1 (0.4
asiocarpine	303344	10 (4

TABLE 2.—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	CASRN	Final RQ Pound (Kg)
ead arsenate	7784409	10-10
	7645252	THE STATE OF THE S
and biologophic Objects (A. 1)	10102484	MAN WE
ead, bis(acetato-O)tetrahydroxytri-	1335326	100 (45
ead subacetate		100 (45.
ithium chromate	58899	1 (0.45
veipnaian	148822	10 (4.5
wetnanamine, N-metnyl-N-nitroso	62750	10 (4.5
vietnane, chloro	7/1973	100 (45.
retriane, chorometrioxy	107302	10 (4.5
Aethane, iodo	74884	100 (45.
Methane, isocyanato	624839	# #
retrianesurionic acid, etnyl ester	62500	10 (4.5
retriarie, tetracnioro	56235	10 (4.5
retriane, trictrioro	67660	10 (4.5
3.4-Metheno-2H-cyclobutal cd Ipentalen-2-one. 1.1a.3.3a.4.5.5.5a.5h.6-decachlorooctahydro-	142500	1 (0.45
7-Methano-Th-Indene,1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	76448	1 (0.45
7-Wethano-Th-Indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahvdro-	57740	1 (0.45
lethyl chloride	74873	100 (45
-Methylcholanthrene	56495	10 (4.5
lethyl iodide	101144	10 (4.5
etnyi isocyanate	74884 624839	100 (45
ethylthiouracii	56042	10 (4.5
illomydin C	50077	10 (4.5
NNG	70257	10 (4.5
12-Naphthacenedione, 8-acetyl-10-13-amino-2.3.6-trideoxyl-alpha-L-loxy-hexopyranosylloxyl-7.8.9.10-tetrahydro-8.8.11-trihy-	The second second	100,000
croxy-1-methoxy-, (85-cis)	20830813	10 (4.5
Naphthalenamine	134327	100 (45
Naphthalenamine aphthalenamine, N,N'-bis(2-chloroethyl)	91598	10 (4.5
7-14dphillaterieulsuifonic acid, 3.3-1.13.3-dimetrivi-11.11-biphenvi 1-4.4'-divi)-bis(270) This [5-2mino-A-hydrovy, totracodium colt	70574	100 (45.
pna-ivaphtriyiamine	12/227	10 (4.5
ola-ivaphutyidhiine	01500	10 (4.5
ICAGI 1	7440000	100 (45.
ickei ammonium suriate	15600190	100 (45.
ickei carbonyi	49469909	10 (4.5
lickel carbonyl Ni(CO)4, (T-4)	13463393	10 (4.5
lickel chloride	7718549	100 (45.
	37211055	10 (4.5
lickel cyanide	E57107	
icker cyanide (vii(CN)2	EE7107	10 (4.5
TONOT TIYUTUALUB	120E4407	10 (4.5
ickel nitrate	14216752	100 (45.
ckel sulfate. Nitrosodi-n-butylamine. Nitrosodi-n-butylamine.	7786814	100 (45.
THU OOCH BUILDING	4440547	10 (4.5
Triu Osodie utylatriine	EE40E	1 (0.45
THE OSCIENCE LYICHTER IC.	62759	10 (4.5
THE COOT TO BUYING CO.	759739	1 (0.45
The second framework and the second s	684935	1 (0.45
Third OSC 14-month your distribution of the control	615532	1 (0.45
- The Coornousystativation	4549400	10 (4.5
Nitrosopiperidine Nitrosopyrrolidine Nitrosopyrrolidine Nitrosopyrrolidine	100754	10 (4.5
TO C TOTAL OF THE PARTY OF THE	930552 99558	1 (0.45
- Sharmolaro, E.E-uloxide	1120714	10 (4.5
- 1,5,2 Oxecaphospholin,2-alline,N,N-DISIZ-Chloroethy))tetranydro- 2-oxide	50180	10 (4.5
m anocarboxyardenyde	765344	10 (4.5
- and (distribution)	106898	100 (45
	56382	10 (4.5
ntachloroethane	76017	10 (4.5
The order option of the control of t	82688	100 (45
7.1944.011.011.011.011.011.011.011.011.011.0	87865 62442	10 (4.5
The dignition of the di	56531	1 (0.45
- Total pointer more	87865	10 (4.5
The state of the s	95954	10 (4.5
	88062	10 (4.5
The state of the s	148823	1 (0.45
	193395	100 (45.
peridine, 1-nitroso-	56382	10 (4.5
olychlorinated Biphenyls (PCBs)	100754	10 (4.5
	1336363	1 (0.45
lychlorinated Biphenyls (PCBs)	12674112	1 (0.45

TABLE 2.—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

Hazardous Substance	CASRN	Final RQ Pound (Kg)
olychlorinated Biphenyls (PCBs)	11141165	1 (0.45
olychlorinated Biphenyls (PCBs)	53469219	1 (0.45
olychlorinated Biphenyls (PCBs)	12672296	1 (0.45
olychlorinated Biphenyls (PCBs)	11097691	1 (0.45
plychlorinated Biphenyls (PCBs)		1 (0.45
otassium arsenate	7784410	1 (0.45
otassium arsenite		1 (0.45
otassium arsenite		10 (4.5
otassium dichromate		10 (4.5
Propanamine, N-nitroso-N-propyl-		10 (4.5
Propanamine, N-nitroso-N-propyl-		1 (0.45
opane, 1,2-dibromo-3-chloro-		10 (4.5
3-Propane sultone		10 (4.5
Propanol, 2,3-dibromo-, phosphate (3:1)		100 (45.
Propenenitrile	The state of the s	1 (0.45
2-Propylenimine		10 (4.5
4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-		10 (4.5
(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	56042	
virolidine, 1-nitroso-	930502	1 (0.45
afrole	94097	100 (45
elegium sulfide	/488504	10 (4.5
elenium sulfide SeS2	/488564	10 (4.5
Serine diazoacetate (ester)	115020	1 (0.45
odium arsenate	/031092	1 (0.45
odium arsenite		1 (0.45
odium bichromate	10588019	10 (4.5
odium chromate	///5113	10 (4.5
treptozotocin	18883664	1 (0.45
trontium chromate	7789062	10 (4.5
ulfunc acid, dimethyl ester	77781	100 (45
DE	72548	1 (0.45
OE TOOK	1746016	1 (0.45
3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	630206	100 (45
1,1,2-Tetrachloroethane.		100 (45
1,2,2-Tetrachloroethane		100000000000000000000000000000000000000
hioacetamide		0.000000
hiourea		10 (4.5
oluenediamine	95807	
	496720	
	823405	
		A COLUMN TO THE OWNER OF THE OWNER OWNER OF THE OWNER OW
	25376458	
-Toluidine	95534	0.0000000000000000000000000000000000000
Toluidine		1/5/2017/2
-Toluidine hydrochloride	030213	100000000000000000000000000000000000000
oxaphene		
H-1.2 4-Triazol-3-amine	01020	
1.2-Trichloroethane		
richloroethene	/9010	
richloroethylene	/3010	THE RESERVE TO SERVE THE PARTY OF THE PARTY
richlorophenol	2510/022	
2,3,4-Trichlorophenol	10900000	
2,3,5-Trichlorophenol.	933700	
2,3,6-Trichlorophenol.	933755	
A LETYLAND AND AND AND AND AND AND AND AND AND	95954	
2,4,6-Trichlorophenol	88062	10 (4.
3,4,5-Trichlorophenol	609198	
3,4,5-Trichlorophenol	95954	10 (4.
.4,5-1nchlorophenol	88062	10 (4.
.4.6-Trichlorophenol.	100000000000000000000000000000000000000	
ris(2,3-dibromopropyl) phosphate	The state of the s	
rypan blue		The state of the s
Inlisted Hazardous Wastes Characteristic of EP Toxicity		
Arsenic D004		200
Cadmium D006		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Chromium D007	***************************************	
Lindane D013		
Toxaphene D015		
learl mustard		52 1525
Irea N-ethyl-N-nitroso-	753750	
Irea N-methyl-N-nitroso-		
/invl chloride		172727020
findidene chloride		
001		
002		
F006	N.F	
000		
-019 -020	N.A	
-020	N.A	1 (0.
7021	N.P.	
F023		

TABLE 2.—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

William Company	Hazardous Substance	CASRN	Final RQ Pound (Kg)
026		N.A.	1 (0.45
027		N.A.	1 (0.45
028		N.A.	1 (0.45
.001		N.A.	1 (0.45
.004		N.A.	10 (4.5
.006		N.A.	10 (4.5
.007		NA	10 (4.5
008		N.A.	10 (4.5
010		N.A.	10 (4.5
011		N.A.	10 (4.5
013		N.A.	10 (4.5
015		N.A.	10 (4.5
016		N.A.	10 (4.5
017		N.A. N.A.	1 (0.45
018		N.A.	10 (4.5 1 (0.45
019		N.A.	1 (0.45
020		N.A.	1 (0.45
021		N.A.	10 (4.5
022		N.A.	1 (0.45
025		N.A.	10 (4.5
027		N.A.	10 (4.5
028		N.A.	1 (0.45
029		N.A.	1 (0.45
030		N.A.	1 (0.45
031		N.A.	1 (0.45
032		N.A	10 (4.5
033		N.A.	10 (4.5
034		N.A.	10 (4.5
035		N.A.	1 (0.45
038		N.A.	10 (4.5
040		N.A.	10 (4.5
)41		N.A.	1 (0.45
342		N.A.	10 (4.5
743		N.A.	10 (4.5
060		N.A.	10 (4.5
773		N.A.	1 (0.45
184		N.A.	10 (4.5
085		N.A.	1 (0.45
095		N.A.	10 (4.5
096		N.A.	100 (45. 100 (45.
097		N.A.	1 (0.45
)98		NA	1 (0.45
)99		NA	10 (4.5
101		NA	1 (0.45
02		NA	1 (0.45
04	NAME OF THE PARTY	NA	10 (4.5
U5		NA	10 (4.5
11		NΑ	10 (4.5
12		NΑ	10 (4.5
13		N A	10 (4.5
14			10 (4.5
15		N A	10 (4.5
147		N.A.	10 (4.5
I I /		NΔ	1 (0.45
18		NA	1 (0.45
23		N A	10 (4.5
144		NA	10 (4.5
126		N.A.	10 (4.5
126		N.A.	10 (4.5
30		N.A.	1 (0.45

th No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 100 micrometers (0.004 inches).

111 The RQ for asbestos is limited to friable forms only.

The Agency may adjust the RQs for these hazardous substances in a future rulemaking; until that time the statutory RQ will be retained.

N.A.—Not applicable.

VII. Summary of Supporting Analyses

A. Executive Order No. 12291

Executive Order (E.O.) No. 12291 requires that regulations be classified as major or nonmajor for purposes of review by the Office of Management

and Budget (OMB). According to E.O. No. 12291, major rules are regulations that are likely to result in:

- (1) An annual effect on the economy of \$100 million or more; or
- (2) A major increase in costs or prices for consumers, individual industries,

Federal, State, or local government agencies, or geographic regions; or

(3) Significant adverse effects on competition, employment, investment, productivity, innovation, or on the ability of United States-based enterprises to compete with foreignbased enterprises in domestic or export markets.

As demonstrated by an economic analysis performed by the Agency. available for inspection at Room M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460, this final rule is nonmajor, because the rule will result in estimated net cost savings of \$15.4 million annually. The annual net cost savings of all RQ adjustments promulgated or proposed to date fincluding those contained in this final rule) are estimated to be \$34.7 million. These net cost savings reflect only those effects of RQ adjustments that are: (1) Readily quantifiable in dollars; and (2) associated with the release notification requirements under CERCLA section 103 and SARA section 304 (including the associated activities of recordkeeping, notification processing, monitoring, and response).

This final rule has been submitted to OMB for review, as required by E.O. No.

B. Regulatory Flexibility Act

The Regulatory Flexibility Act of 1980 requires that a Regulatory Flexibility Analysis be performed for all rules that are likely to have a "significant impact on a substantial number of small entities." To determine whether a Regulatory Flexibility Analysis is necessary for this final rule, a preliminary analysis was conducted using a computer model that simulated the typical operation of a small U.S.

chemical company.

The results of the simulation indicate that the upper-bound total cost of compliance to small firms is negligible. See the "Regulatory Impact Analysis of Reportable Quantity Adjustments Under Sections 102 and 103 of the Comprehensive Environmental Response, Compensation, and Liability Act," Volume I, March 1985, available for inspection at Room M2427, U.S. EPA, 401 M Street, SW., Washington, DC 20460. Therefore, because this final rule is not expected to have a significant impact on small entities, EPA certifies that no Regulatory Flexibility Analysis is necessary.

C. Paperwork Reduction Act

EPA requires an Information Impact Analysis for all rules that impose a paperwork burden on the public. This analysis estimates the burden imposed on parties outside EPA for activities such as notification or recordkeeping. This final rule will provide a decrease in the paperwork burden imposed on the regulated community for information collection associated with fewer releases being reportable. Because the

effect of this final rule on the paperwork burden is a reduction, EPA has determined that no further Information Impact Analysis need be performed.

The information collection requirements contained in this rule have been approved by OMB under the provisions of the Paperwork Reduction Act, 44 U.S.C. 3501 et seq., and have been assigned OMB control number 2050-0046.

The public reporting burden for this collection of information is estimated to vary from eight to 11 hours per response. including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503, marked "Attention: Desk Officer for EPA."

Note 1: EPA proposed RQ adjustments for most of the hazardous substances whose RQs are promulgated in this final rule on March 16, 1987. As of that date, there were 717 CERCLA hazardous substances. Changes to the list of CERCLA hazardous substances since March 16, 1987 are described below. Four hazardous waste streams (K123, K124, K125, and K126) were added in a final rule (51 FR 37725) that became effective on April 24, 1987, bringing the total number of CERCLA hazardous substances to 721. EPA removed iron dextran and strontium sulfide from the list in two final rules (53 FR 43878 and 53 FR 43881) effective October 31, 1988, thus reducing the number of CERCLA hazardous substances to 719. Six hazardous substances (waste streams K064, K065, K066, K088, K090, and K091) were added in a final rule (53 FR 35412) that became effective on March 13, 1989, increasing the number of CERCLA hazardous substances to 725, which is the current total. Lastly, based on this final rule, ammonium thiosulfate will be removed from the CERCLA list 60 days from today's date, thus reducing the number of CERCLA hazardous substances to 724.

Note 2: RQs for 273 hazardous substances were proposed for adjustment on March 16, 1987 in a Notice of Proposed Rulemaking (NPRM). RQs for 254 of these 273 hazardous substances are being promulgated in this rule. RQs for six of these 273 hazardous substances are promulgated elsewhere in today's Federal Register. These six hazardous substances are: 1,4-dioxane, 2-ethoxyethanol, ethylene oxide, 2-nitropropane, perchloroethylene, and saccharin. As explained in Section II.C.2.i of this preamble, EPA will also address the RQs for the

remaining 13 of the 273 hazardous substances in a future action.

Note 3: These four hazardous substances (waste streams K123, K124, K125, and K126) were listed in a final rule that became effective on April 24, 1987 (see 51 FR 37725, October 24, 1986). Although RQs for these four waste streams were not proposed in the March 16, 1987 NPRM, the RQ for the only hazardous substance in these waste streams (ethylene thiourea), which determines the RQ for the waste streams themselves, was proposed for adjustment in the March 16, 1987 NPRM. For further discussion of the RQ adjustments for these four hazardous waste streams, see Section II.C.1 of this preamble.

List of Subjects

40 CFR Part 116

Hazardous substances, Penalties, Water pollution control.

40 CFR Part 117

Hazardous substances, Penalties. Reporting and recordkeeping requirements, Water pollution control.

40 CFR Part 302

Air pollution control, Chemicals, Hazardous materials, Hazardous materials transportation, Hazardous substances, Hazardous wastes, Intergovernmental relations, Natural resources, Oil pollution, Pesticides and pests, Reporting and recordkeeping requirements, Superfund, Waste treatment and disposal. Water pollution control, Water supply.

Dated: June 26, 1989. William K. Reilly, Administrator.

For the reasons set forth in the preamble, chapter I of Title 40 of the Code of Federal Regulations is amended as follows:

PART 302-DESIGNATION, REPORTABLE QUANTITIES, AND NOTIFICATION

1. The authority citation for Part 302 is revised to read as follows:

Authority: 42 U.S.C. 9602; 33 U.S.C. 1321 and 1361.

2. Section 302.4 is amended by revising Table 302.4 and Appendix A to Table 302.4 to read as set forth below. The appropriate footnotes to Table 302.4 are republished without change and footnote "# #" is revised as set forth below. Included in these amendments to Table 302.4 and Appendix A to Table 302.4 is the removal of the entry for "Ammonium thiosulfate," CASRN 7783188, as well as the removal of the term "Kelthane," CASRN 115322, and the insertion in its place of the term "Dicofol." The note preceding Table 302.4 is republished without change.

§ 302.4 [Amended]

Note—The numbers under the column headed "CASRN" are the Chemical Abstracts Service Registry Numbers for each hazardous substance. Other names by which each hazardous substance is identified in other statutes and their implementing regulations are provided in the "Regulatory Synonyms" column. The "Statutory RQ" column lists the

RQs for hazardous substances established by section 102 of CERCLA. The "Statutory Code" column indicates the statutory source for designating each substance as a CERCLA hazardous substance: "1" indicates that the statutory source is section 311(b)(4) of the Clean Water Act, "2" indicates that the source is section 307(a) of the Clean Water Act, "3" indicates that the source is section 112 of the Clean Air Act, and "4" indicates that the source is RCRA section 3001. The

"RCRA Waste Number" column provides the waste identification numbers assigned to various substances by RCRA regulations. The column headed "Category" lists the code letters "X," "A," "B," "C," and "D," which are associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively. The "Pounds (kg)" column provides the reportable quantity adjustment for each hazardous substance in pounds and kilograms.

TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous Substance	1		The state of	Statutory		Final RQ	
	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Acenaphthene	83329	The state of the s	1"		DE G		10000
Acenaphthylene	208968			2	C. In	В	100 (45.4
Acetaldehyde	75070	Ethogal	17	2	100000	D	5000 (2270
Acetaldehyde, chloro	+07000	Ethanal	1000	1,4	U001	C	1000 (454
Acetaldehyde, trichloro-	107200	Chloroacetaldehyde	17	4	P023	C	1000 (454
Acetamida & (aminathiavamenta)	75876	Chloral		4	U034	D	5000 (2270
Acetamide, N-(aminothioxomethyl)	591082	1-Acetyl-2-thiourea		4	P002	C	1000 (454
Acetamide, N-(4-ethoxyphenyl)	62442	Phenacetin	1*	4	U187	B	100 (45.4
Acetamide, 2-fluoro-	640197	Fluoroacetamide	1*	4	P057	В	100 (45.4
Acetamide, N-9H-fluoren-2-yl	53963	2-Acetylaminofluorene	1*	4	U005	X	1 (0.454
Acetic acid	64197		1000	1		D	5000 (2270
Acetic acid (2,4-dichlorophenoxy)	94757	2,4-D Acid	100	1,4	U240	В	100 (45.4
		2,4-D, salts and esters					100 (101)
Acetic acid, learl(2+) salt	301042	Lead acetate	5000	1,4	U144		4
cetic acid, thallium(1+) salt	563688	Thallium(I) acetate	1*	4	U214	В	100 45 4
kcefic acid, (2,4,5-trichlorophenoxy)	93765	2,4,5-T	100	1,4	U232	C	100 (45.4
	The same of the sa	2,4,5-T acid	100	1,4	UZUZ	-	1000 (454
Acefic acid, ethyl ester	141786	Ethyl acetate	10	20 14 10	11440	-	5000 (0000
Acetic acid, fluoro-, sodium salt	62748	Fluoroacetic acid, sodium salt	1.	4	U112	D	5000 (2270
Acetic anhydride	108247	Fridoroaceac acid, sociatri sait		4	P058	A	10 (4.54
cetone	67041	O Description of the last of t	1000	LUSTE US	12422200	D	5000 (2270
cetone cyanohydrin	. 67641	2-Propanone	1*	4	U002	D	5000 (2270
	1	Propanenitrile, 2-hydroxy-2-methyl-2-Meth- yllactonitrile	10	1,4	P069	A	10 (4.54
vcetonitrile	75058	THE RESERVE THE PARTY OF THE PA	1.	4	U003	D	5000 (2270
cetophenone	98862	Ethanone, 1-phenyl-	1*	4	U004	D	5000 (2270
-Acetylaminofluorene	53963	Acetamide, N-9H-fluoren-2-yl-	1*	4	U005	X	1 (0.454
cetyl bromide	506967		5000	1	7,000,000	D	5000 (2270
cetyl chloride	75365		5000	1,4	U006	D	5000 (2270
-Acetyl-2-thiouraa	591082	Acetamide, N-(aminothioxomethyl)-	1*	4	P002	C	1000 (454
crolein	107028	2-Propenal	1	1,2,4	P003	X	CONTRACTOR OF THE PARTY OF THE
crylamide	79061	2-Propenamide	10	1,4,7	U007	D	1 (0.454
crylic acid	79107	2-Propenoic acid	10		U008	D	
crylonitrile	107131	2-Propenenitrile	100	124	U009	В	5000 (2270
dipic acid	124049	a Tropanomono		1,2,4	0009		100 (45.4
idicarb	116063	Propanal, 2-methyl-2-(methylthio)O-	5000	De la	0070	D	5000 (2270
		[(methylamino)carbonyl]oxime	1.	4	P070	×	1 (0.454)
Aldrin	309002	1,4,5,8-Dimethanonaphthalene,	11	1,2,4	P004	X	1 (0.454)
		1,2,3,4,10,10-10-hexachloro-	000			E Committee	and the same
		1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha,4abeta,5alpha,8alpha,8abeta)-	-				
llyl alcohol	. 107186	2-Propen-1-ol	100	1,4	P005	В	100 (45.4)
ilyl chloride	107051		1000	4		C	1000 (454)
iuminum phosphide	20850798		1*	4	P006	В	100 (45.4)
luminum sulfate	10043013	THE RESERVE OF THE PARTY OF THE	5000	1	1000	D	5000 (2270)
(Aminomethyl) 3-isoxazolol	2763964	Muscimol 3(2H)-Isoxazolone, 5-(amino- methyl)-	1"	4	P007	C	1000 (454)
-Aminopyridine	504245	4-Pyridinamine	1*		DOOR	0	1000 7454
mitrole	61825	1H-1,2,4-Triazol-3-amine	2571344	4	P008	C	1000 (454)
mmonia	7664417	The feet that or or anning	1*	4	U011	A	10 (4.54)
mmonium acetate	631618		100			В	100 (45.4)
mmonium benzoate	1863634	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	5000	1		D	5000 (2270)
mmonium bicarbonate		A STREET OF STREET STREET	5000	1		D	5000 (2270)
mmonium bichremate	1066337		5000			D	5000 (2270)
mmonium bifluoride	7789095	THE RESERVE AND ADDRESS OF THE PARTY OF THE	1000	1		A	10 (4.54)
mmonium bisulfite	1341497	THE RESERVE OF THE PARTY OF THE	5000	1		8	100 (45.4)
Gmonlym corporate	10192300		5000	1		D	5000 (2270)
mmonium carbamate	1111780	The second second second	5000	1	00	D	5000 (2270)
mmonium carbonate	506876	THE RESERVE OF THE PARTY OF THE	5000	1		D	5000 (2270)
mmonium chloride	. 12125029	The second second second second	5000	100		D	5000 (2270)
mmonium chromate	. 7788989	THE RESERVE OF THE PERSON NAMED IN	1000	1		A	10 (4.54)
mmonium citrate, dibasic	3012655	and the same of th	5000	1		D	5000 (2270)
mmonium fluoborate	. 13826830		5000	1		D	5000 (2270)
mmonium fluoride	12125018		5000	100	THE RESERVE	B	OGGG (EEIO)

TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued [Note: All Comments/Notes Are Located at the End of This Table]

Hazardous Substance			Statutory			Final RQ	
	CASRN	I Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Ammonium hydroxide	1336216	The bar had been provided and	1000	1	The second	C	1000 (454
Ammonium oxalate	6009707 5972736	Service and evaluations	5000	i	- under	D	5000 (2270
A management of the same	14258492	ALTERNATION CONTRACTOR		The state of			
Ammonium picrate	131748 16919190	Phenol, 2,4,6-trinitro-, ammonium salt	1*	4	P009	A	10 (4.54
Ammonium sulfamate	7773060	TO DESCRIPTION OF THE PARTY OF	5000	1	100 100 100	D	5000 (2270
Ammonium sulfide	12135761		5000	1	-	В	100 (45.4
Ammonium sulfite	10196040	market was a property to the California	5000	1	1 1 1 1	D	5000 (2270
Ammonium tartrate	14307438	And the Committee of th	5000	1	The Party of the P	D	5000 (2270
Ammonium thiocyanate	3164292 1762954		5000			D	E000 (227)
Ammonium vanadate	7803556	Vanadic acid, ammonium salt	1*	4	P119	C	1000 (2270
Amyl acetate	628637	Turido dora, arritoriori sati	1000	1	1000	D	5000 (2270
iso-Amyl acetate	123922		37.55	-	-	100	
sec-Amyl acetate	626380		13 (1)				- Milliotano
tert-Arnyl acetate	625161	and the same of th	100000	Tel Til	Bar al		17 (35, 35), 433
Anthracene	62533 120127	Benzenamine	1000	1,4	U012	D	5000 (2270
Antimony ††	7440360		1*	2 2	E HERE	D	5000 (2270
ANTIMONY AND COMPOUNDS	N.A.		1.	2	177		3000 (22/0
Antimony pentachloride	7647189		1000	1	100	C	1000 (454
Antimony potassium tartrate	28300745		1000	1	III.	В	100 (45.4
Antimony tribromide	7789619		1000	1		C	1000 (454
Antimony trichloride	10025919	O seed by the state of the stat	1000	1	100	C	1000 (454
Antimony trifluoride	7783564	STATE OF THE STATE	1000	1	THE REAL PROPERTY.	C	1000 (454
Antimony trioxide	1309644 506616	Potassium silver cyanide	5000	4	P099	X	1000 (454
Aroclor 1016	12674112	POLYCHLORINATED BIPHENYLS (PCBs)	10	1,2	1000	x	1 (0.454
Aroclor 1221	11104282	POLYCHLORINATED BIPHENYLS (PCBs)	10	1,2	Vis Dell's	X	1 (0.454
Aroclor 1232	11141165	POLYCHLORINATED BIPHENYLS (PCBs)	10	1,2	1111111	X	1 (0.454
Aroclor 1242	53469219	POLYCHLORINATED BIPHENYLS (PCBs)	10	1,2		X	1 (0.454
Aroclor 1248	12672296	POLYCHLORINATED BIPHENYLS (PCBs)	10	1,2	The state of the s	X	1 (0.454
Aroclor 1254	11097691	POLYCHLORINATED BIPHENYLS (PCBs)	10	1,2		X	1 (0.454
Arsenic ††	11096825 7440382	POLYCHLORINATED BIPHENYLS (PCBs)	10	1,2		×	1 (0.454
Arsenic acid	1327522	Arsenic acid H3AsO4	1*	4	P010	x	1 (0.454
Arsenic acid H3AsO4	7778394 1327522	Arsenic acid	1*	4	P010	X	1 (0.454
ARSENIC AND COMPOUNDS	7778394 N.A.		1*	2			SOUTH THE
Arsenic disulfide	1303328		5000	- 1		×	1 (0.454
Arsenic oxide As2O3	1327533	Arsenic trioxide	5000	1,4	P012	x	1 (0.454
Arsenic oxide As2O5	1303282	Arsenic pentoxide	5000	1,4	P011	×	1 (0.454
Arsenic pentoxide	1303282	Arsenic oxide As2O5	5000	1,4	P011	X	1 (0.454
Arsenic trichloride	7784341		5000	1	-	X	1 (0.454
Arsenic trioxide	1327533	Arsenic oxide As2O3	5000	1,4	P012	X	1 (0.454
Arsine, diethyl-	1303339 692422	Diethylarsine	5000	4	P038	X	1 (0.454
Arsinic acid, dimethyl-	75605	Cacodylic acid	1.	4	U136	x	1 (0.454
Arsonous dichloride, phenyl	696286	Dichlorophenylarsine	1*	4	P036	X	1 (0.454
Asbestos †††	1332214		1*	2,3		X	1 (0.454
Auramine	492808	Benzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl-	1.	4	U014	В	100 (45.4
Azaserine	115026	L-Serine, diazoacetate (ester)	1*	4	U015	×	1 (0.454
Aziridine	151564	Ethylenimine	1.	4	P054	X	1 (0.454
Aziridine, 2-methyl- Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7- dione,6-amino-8-	75558 50077	1,2-Propylenimine Mitomycin C	1.	4 4	P067 U010	X	1 (0.454 10 (4.54
[[(aminocarbonylooxy]methyl]- 1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5- methyl-,[1aS-							
(1aalpha,8beta,8aalpha,8balpha)]	542621		10	1,4	P013	A	10 (4.54
Benz[j]aceanthrylene, 1,2-dihydro-3- methyl-	56495	3-Methylcholanthrene	1*	4	U157	Â	10 (4.54
Benz[c]acridine	225514		1*	4	U016	В	100 (45.4
Benzal chloride	98873 23950585	Benzene, dichloromethyl- Pronamide	1.	4 4	U017 U192	D D	5000 (2270 5000 (2270
propynyl) Benz[a]anthracene	56553	Benzo[a]anthracene	1*	2,4	U018	A	10 (4.54
12 Passauthanna		1,2-Benzanthracene	100	The same of	11040		
1,2-Benzanthracene	56553	Benz[a]anthracene	1"	2,4	U018	A	10 (4.54
Benz[a]anthracene, 7,12-dimethyl	E7076	Benzo[a]anthracene 7,12-Dimethylbenz[a]anthracene	1.	4	U094	X	1 (0.454

2000	SHORE	A PROPERTY AND ADDRESS OF		Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)	
Benzenamine	62533	Anillne	1000	1,4	U012	D	5000 (227)	
Benzenamine, 4,4'-carbonimidoylbis (N,N-dimethyl-	492808	Auramine		4	U014	В	100 (45,	
Benzenamine, 4-chloro- Benzenamine, 4-chloro-2-methyl-, hydro-	106478 3165933	p-Chloroaniline 4-Chloro-o-toluidine, hydrochloride	1*	4 4	P024 U049	C	1000 (45-	
chloride Benzenamine, N,N-dimethyl-4-(phenylazo-)	60117	p-Dimethylaminoazobenzene	1.	4	11002		10.445	
Benzenamine, 2-methyl-	95534	o-Toluidine	1.	4	U093 U328	B	10 (4.5	
Senzenamine, 4-methyl-	106490	p-Toluidine	1"	4	U353	8	100 (45.	
Benzenamine, 4,4'-methylenebis(2-chloro	101144	4,4'-Methylenebis(2-chloroaniline)	1"	4	U158	A	10 (4.5	
Benzenamine, 2-methyl-, hydrochloride Benzenamine, 2-methyl-5-nitro	636215 99558	o-Toluidine hydrochloride 5-Nitro-o-toluidine	111	4	U222	В	100 (45.	
Benzenamine, 4-nitro-	100016	p-Nitroaniline	1:	4	U181 P077	B	100 (45.	
Benzene	71432	p madamino	1000	1,2,3,4	U109	A	5000 (227 10 (4.5	
Benzeneacetic acid, 4-chloro-alpha-(4- chlorophenyl)-alpha-hydroxy-, ethyl ester	510156	Chlorobenzilate	1.	4	U038	Â	10 (4.5	
Benzene, 1-bromo-4-phenoxy- Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	101553 305033	4-Bromophenyl phenyl ether Chlorambucil	1:	2,4	U030 U035	B	100 (45.4 10 (4.54	
Banzene, chloro-	108907	Chlorobenzene	100	1,2,4	U037	В	100 (45.	
Benzene, chloromethyl-	100447	Benzyl chloride	100	1,4	P028	В	100 (45.	
Benzenediamin, ar-methyl	95807 496720 823405	Toluenediamine	1	1	U221	A	10 (4.5	
1,2-Benzenedicarboxylic acid, dioctyl ester	117840	Di-n-octyl phthalate	11	2,4	U107	D	5000 (227)	
1,2-Benzenedicarboxylic acid, [bis(2-ethyl- hexyl)]-ester.	117817	Bis (2-ethylhexyl)phthalate Diethylhexyl phthalate	1"	2,4	U028	8	100 (45.	
2-Benzenedicarboxylic acid, dibutyl ester	84742	Di-n-butyl phthalate Dibutyl phthalate n-Butyl phthalate	100	1,2,4	U069	A	10 (4.5	
,2-Benzenedicarboxylic acid, diethyl ester	84662	Diethyl phthalate	1.	2,4	U088	C	1000 (45	
2-Benzenedicarboxylic acid, dimethyl ester	131113	Dimethyl phthalate	i.	2,4	U102	D	1000 (45 5000 (227	
Senzene, 1,2-dichloro-	95501	o-Dichlorobenzene	100	1,2,4	U070	В	100 (45.	
Benzene, 1,3-dichloro	541731	1,2-Dichlorobenzene m-Dichlorobenzene 1,3-Dichlorobenzene	1.	2,4	U071	В	100 (45.	
enzene, 1,4-dichloro-	106467	p-Dichlorobenzene	100	1,2,4	U072	8	100 (45.	
Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-	72548	1,4-Dichlorobenzene DDD TDE	1	1,2,4	U060	×	1 (0.45	
The second secon	27000 100	4,4' DDD		226.934				
enzene, dichloromethyl-	98873	Benzal chloride	1.	4	U017	D	5000 (227)	
enzene, 1,3-diisocyanatomethyl	584849 91087	Toluene diisocyanate	1'	4	U223	8	100 (45.	
Senzene, dimethyl	26471625 1330207	Xylene (mixed)	1000		11000	0	****	
m-Benzene, diraethyl	108383	m-Xylene	1000	1,4	U239	C	1000 (45	
o-Benzene, dimethyl	95476	o-Xylene				1012-01		
p-Benzene, dimethyl	106423	p-Xylene	Thomas H	Star		The same of		
,3-Benzenediol	108463 51434	Resorcinol Epinephrine	1000	1,4	U201 P042	C	5000 (227 1000 (45	
enzeneethanamine, alpha,alpha-dimethyl	122098	alpha,alpha-Dimethylphenethylamine	1.	4	P046	D	5000 (207	
enzene, hexachloro-	118741	Hexachlorobenzene	1 10	2,4	U127	A	5000 (227 10 (4.5	
enzene, hexahydro	110827	Cyclohexane	1000	1,4	U056	C	1000 (45	
enzene, hydroxy-	108952	Phenol	1000	1,2,4	U188	C	1000 (45	
enzene, methyl- enzene, 2-methyl-1,3-dinitro-	108883 606202	Toluene	1000	1,2,4	U220	C	1000 (45	
enzene, 1-methyl-2,4-dinitro-	121142	2,6-Dinitrotoluene 2,4-Dinitrotoluene	1000	1,2,4	U106	В	100 (45.	
enzene, 1-methylethyl	98828	Cumene	1*	1,2,4	U105 U055	A D	10 (4.5 5000 (227	
enzene, nitro	98953	Nitrobenzene	1000	1,2,4	U169	C	1000 (45	
enzene, pentachloro-	608935	Pentachlorobenzene	1*	4	U183	A	10 (4.5	
enzene, pentachloronitroenzenesulfonic acid chloride	82688 98099	Pentachloronitrobenzene (PCNB)	1.1	4	U185	В	100 (45.	
anzenesulfonyl chloride	98099	Benzenesulfonyl chloride Benzenesulfonic acid chloride	1:	4	U020	B B	100 (45.	
enzene, 1,2,4,5-tetrachloro-	95943	1,2,4,5-Tetrachlorobenzene	1	4	U020 U207	D	100 (45. 5000 (227)	
enzenethiol	108985	Thiophenol	i.	4	P014	В	100 (45.	
enzene, 1,1'-(2,2,2-tri-	50293	DDT	1	1,2,4	U061	X	1 (0.45	
chloroethylidene)bis[4-chloro- enzene, 1,1'-(2,2,2-trichloroethylidene) bis[4-methoxy-	72435	4,4'DDT Methoxychior	1	1,4	U247	×	1 (0.45	
Benzene, (trichloromethyl)-	98077	Benzotrichloride	1.	4	U023	A .	10.45	
Penzene, 1,3,5-trinitro-	99354	1,3,5-Trinitrobenzene	1.	4	U234	A	10 (4.54	
	92875	(1,1'-Biphenyl)-4,4'diamine	1.		WEST T		10 [4.5	

	The state of the s			Statutory	-	Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)	
1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide	81072	Saccharin and salts	1.	4	U202	В	100 (45.4	
Benzo[a]anthracene	56553	Benz[a]anthracene	1.	2,4	U018	A	10 (4.5	
THE RESIDENCE OF THE PARTY OF T		1,2-Benzanthracene			200000	37		
Benzo[b]fluoranthene	205992		11	2		X	1 (0.45	
Benzo(k)fluoranthene	207089	The state of the s	1*	2		D	5000 (227)	
Benzo[j,k]fluorene	206440	Fluoranthene	1*	2,4	U120	В	100 (45.	
1,3-Benzodioxole, 5-)1-propenyl)	120581	Isosafrole	1*	4	U141	В	100 (45.	
1,3-Benzodioxole,5-(2-propenyl)	94597	Safrole	1.	4	U203	В	100 (45.	
1,3-Benzodioxole, 5-propyl	94586	Dihydrosafrole	1*	4	U090	A	10 (4.5	
Benzoic acid	65850		5000	1	C. COPPLE	D	5000 (227)	
Benzonitrile	100470		1000		11001	D	5000 (227	
Benzo [rst]pentaphene	189559 191242	Dibenz[a,i]pyrene	1*	4	U064	A	10 (4.5	
Benzo[ghi]perylene2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-	81812	Warfarin, & salts, when present at concen-	1.	2	P001	B	5000 (227	
oxo-1-phenyl-butyl)-, & salts, when present at concentrations greater than 0.3%	01012	trations greater than 0.3%			Poor		100 (45.4	
Benzo[a]pyrene	50328	3,4-Benzopyrene	1*	2,4	U022	X	1 (0.45	
3,4-Benzopyrene	50328	Benzo[a]pyrene	1*	2,4	U022	×	1 (0.45	
-Benzoquinone	106514	2,5-Cyclohexadiene-1,4-dione	1*	4	U197	A	10 (4.5	
Benzotrichloride	98077	Benzene, (trichloromethyl)-	1*	4	U023	A	10 (4.5	
Benzoyl chloride	98884		1000	1	17200	C	1000 (45	
,2-Benzphenanthrene	218019	Chrysene	1.	2,4	U050	В	100 (45.	
Benzyl chloride	100447	Benzene, chloromethyl-	100	1,4	P028	B.	100 (45.	
Beryllium ††	7440417	Beryllium dust ††	17	2,3,4	P015	A	10 (4.5	
BERYLLIUM AND COMPOUNDS	N.A. 7787475	politically by my by	5000	- 2			1 (0.45	
Beryllium dust ††	7440417	Beryllium ††	1"	2.3.4	P015	X	10 (4.5	
Beryllium fluoride	7787497	Derymunt	5000	2,5,4	10.13	x	1 (0.45	
Beryllium nitrate	13597994		5000	1		x	1 (0.45	
The state of the s	7787555		3000	000	CALL PAGE	Circle Litter	1 (0.40	
lpha—BHC	319846		1*	2	Name of Street	A	10 (4.5	
eta-BHC	319857		1*	2	-	X	1 (0.45	
lelta—BHC	319868		1*	2		X	1 (0.45	
amma—BHC	58899	Cyclohexane, 1,2,3,4,5,6-hexachloro- ,(1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- Hexachlorocyclohexane (gamma isomer) Lindane		1,2,4	U129	X	1 (0.45	
2.2'-Bioxirane	1464535	1,2:3,4-Diepoxybutane	1*	4	U085	A	10 (4.5	
1,1'-Biphenyl)-4,4'diamine	92875	Benzidine	1*	2,4	U021	X	1 (0.45	
1,1'-Biphenyl]-4,4'diamine,3,3'dichloro	91941	3,3'-Dichlorobenzidine	1*	2,4	U073	X	1 (0.45	
1,1'-Biphenyl]-4,4'diamine,3,3'dimethoxy	119904	3,3'-Dimethoxybenzidine	1*	4	U091	В	100 (45.	
1,1'Biphenyl]-4,4'-diamine,3,3'-dimethyl	119937	3,3'-Dimethylbenzidine	1.	4	U095	A	10 (4.5	
Bis (2-chloroethyl) ether	111444	Dichloroethyl ether	1*	2,4	U025	A	10 (4.5	
Bis(2-chloroethoxy) methane	111911	Ethane, 1,1'-oxybis[2-chloro- Dichloromethoxy ethane Ethane, 1,1'-[methylenebis(oxy)]bis(2-	1*	2,4	U024	С	1000 (45	
		chloro-			SECTION AS	1	and the last	
3is (2-ethylhexyl)phthalate	117817	Diethylhexyl phthalate 1,2-Benzenedicarboxylic acid, [bis(2-ethyl-hexyl)] ester	1*	2,4	U028	8	100 (45.	
Bromoacetone	598312	2-Propanone, 1-bromo-	1*	4	P017	C	1000 (45	
Bromoform	75252	Methane, tribromo-	1*	2,4	U225	В	100 (45.	
-Bromophenyl phenyl ether	101553	Benzene, 1-bromo-4-phenoxy-	1*	2,4	U030	В	100 (45.	
srucine	357573	Strychnidin-10-one, 2,3-dimethoxy-	1*	4	P018	В	100 (45.	
,3-Butadiene, 1,1,2,3,4,4-hexachloro	87683	Hexachlorobutadiene	1*	2,4	U128	X	1 (0.45	
-Butanamine, N-butyl-N-nitroso	924163	N-Nitrosodi-n-butylamine	1*	4	U172	A	10 (4.5	
-Butanol	71363	n-Butyl alcohol	1*	4	U031	D	5000 (227	
-Butanone	78933	Methyl ethyl ketone (MEK)	11	4	U159	D	5000 (227	
-Butanone peroxide	1338234 39196184	Methyl ethyl ketone peroxide Thiofanox	1.	4 4	U160 P045	AB	10 (4.5	
O[(methylamino)carbonyl] oxime.	123739	Crotonaldehyde	100	1,4	U053	В	100 (45.	
THE RESERVE OF THE PARTY OF THE	4170303		100		ALCON !	The state of the s	THE WIND	
Butene, 1,4-dichloro- Butenoic acid, 2-methyl-, 7[[2,3-dihy-droxy-2-(1-methoxyethyl)-3-methyl-1-	764410 303344	1,4-Dichloro-2-butene Laslocarpine	1;	4 4	U074 U143	X	1 (0.45- 10 (4.5	
oxobutoxy]methyl]-2,3,5,7a-tetrahydro- 1H-pyrrolizin-1-yl ester, [1S- [1alpha(Z),7(2S*,3R*),7aalpha]]-	100001	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	5000	*			E000 (007	
Butyl acetate	123864		5000	Dyr. C	-	D	5000 (227)	
iso-Butyl acetatesec-Butyl acetate	110190 105464	and the second s	203 14		Marin -	-	THE REAL PROPERTY.	
soo odiji aobiaio	540885	the section of the section of the section of	19 13 70			1000	The second second	

	-	The state of the s		Statutory		Fi	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
n-Butyl alcohol	71363	1-Butanol	1.	W. (3)	11004		
Butylamine	109739	1-butarior	1000	4	U031	D	5000 (2270)
iso-Butylamine	78819	THE RESERVE THE PARTY OF THE PA	1000			C	1000 (454)
sec-Butylamine	513495		943				
tert-Butylamine	13952846		TE			1000000	
Butyl benzyl phthalate	75649		HE TOWN				
n-Butyl phthalate	85687	D. L. 11 16 1.	1*	2		В	100 (45.4)
r-body proteste	84742	Di-n-butyl phthalate Dibutyl phthalate 1,2-Benzenedicarboxylic acid, dibutyl ester	100	1,2,4	U069	A	10 (4.54)
Butyric acid	107926	1,2-Delizeriedicarboxylic acid, dibutyl ester	5000	1	137	D	5000 (2270)
iso-Butyric acid	79312	E PORT GIOLOGICA		100			0000 (2270)
Cacodylic acid	75605	Arsinic acid, dimethyl-	1*	4	U136	×	1 (0.454)
Cadmium ††	7440439		10	2		A	10 (4.54)
Cadmium acetate	543908	The second secon	100	1		A	10 (4.54)
CADMIUM AND COMPOUNDS	N.A.		1*	2	T. THE LEE	200	10 (4.54
Cadmium bromide	7789426	195,05,00	100	1	3 93 6	A	10 (4.54)
Cadmium chloride		The second secon	100	1	11/1/2	A	10 (4.54)
Calcium arsenate	7778441		1000	1		X	1 (0.454)
Calcium arsenite	52740166		1000	1	7 7 -5	x	1 (0.454)
Calcium carbide	75207	Company of the second s	5000	1	1	Â	10 (4.54)
Calcium chromate	13765190	Chromic acid H2CrO4, calcium salt	1000	1,4	U032	A	
Calcium cyanide	592018	Calcium cyanide Ca(CN)2	1000		P021	155.555	10 (4.54)
Calcium cyanide Ca(CN)2	592018	Calcium cyanide	10	1,4	P021	A	10 (4.54)
Calcium dodecylbenzenesulfonate	26264062		1000	1,4	FUZI	A	10 (4.54)
Calcium hypochlorite	7778543	M. Control of the Con	100	BILL THE	-0.0	C	1000 (454)
Camphene, octachloro	8001352	Toxaphene	1 TO	101	D400	A	10 (4.54)
Captan	133062	Toxapiloria	1	1,2,4	P123	×	1 (0.454)
Carbamic acid, ethyl ester	51796	Ethyl carbamate (urethane)	10	TOTAL STREET	11000	A	10 (4.54)
Carbamic acid, methylnitroso-, ethyl ester	615532	N-Nitroso-N-methylurethane	1:	4	U238	В	100 (45.4)
Carbamic chloride, dimethyl-	79447	Dimethylcarbamoyl chloride	- 1°	4	U178	X	1 (0.454)
Carbamodithioic acid, 1,2-ethanediylbis,	111546	Francisco de la constantina della constantina de	12	4	U097	X	1 (0.454)
salts & esters	111340	esters acid, salts &	1.	4	U114	D	5000 (2270)
Carbamothioic acid, bis(1-methylethyl)-, S- (2,3-dichloro-2-propenyl) ester	2303164	Diallate	1*	4	U062	В	100 (45.4)
Carbaryl	63252		100	1		В	100 (45.4)
Carbofuran	1563662		10	1	100	A	10 (4.54)
Carbon disuifide	75150		5000	1,4	P022	В	100 (45.4)
Carbon oxyfluoride	353504	Carbonic difluoride	1*	4	U033	C	1000 (454)
Carbon tetrachloride	56235	Methane, tetrachloro-	5000	1,2,4	U211	A	10 (4.54)
Carbonic acid, dithallium(1+) salt	6533739	Thallium(I) carbonate	1*	4	U215	8	100 (45.4)
Carbonic dichloride	75445	Phosgene	5000	1,4	P095	A	10 (4.54)
Carbonic difluoride	353504	Carbon oxyfluoride	1"	4	U033	C	1000 (454)
Carbonochloridic acid, methyl ester	79221	Methyl chlorocarbonate Methyl chloroformate	1*	4	U156	С	1000 (454)
Chloral	75876	Acetaldehyde, trichloro-	1*	4	U034	D	5000 (2270)
	305033	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	1*	4	U035	A	10 (4.54)
Chlordane	57749	Chlordane, alpha & gamma isomers Chlordane, technical	1	1,2,4	U036	×	1 (0.454)
		4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-oc- tachloro-2,3,3a,4,7,7a-hexahydro-	2				
CHLORDANE (TECHNICAL MIXTURE AND METABOLITES)	N.A.		1*	2			Maria Company
Chlordane, alpha & gamma isomers	57749	Chlordane	1	1,2,4	U036	x	1 (0 454)
	20-18-	Chlordane, technical	10 30	11514	0000	2	1 (0.454)
Market Ma	100	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-oc-	2	200	10000	CAR COLOR	
	9.00	tachloro-2,3,3a,4,7,7a-hexahydro-	- 124	1001	SE CO	and the same	
Chlordane, technical	57749	Chlordane	1	1,2,4	U036	x	1 (0 454)
		Chlordane, alpha & gamma isomers 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-oc-		1,2,4	0030		1 (0.454)
CHLORINATED BENZENES		tachloro-2,3,3a,4,7,7a-hexahydro-	P. P. L.	BUT THE		THE REAL PROPERTY.	
CHLORINATED ETHANES	N.A.	The second secon	1°	2		The same of the sa	**
CHLORINATED NAPHTHALENE	N.A. N.A.		1.	2		THE REAL PROPERTY.	
CHLORINATED PHENOLS		The state of the s	1.	2	W. C. T.	200	
Chlorine	N.A.	AUGUST THE REAL PROPERTY.	1*	2		The state of	· ·
Chlornaphazine	7782505	Nonbib describe NAME TO THE PROPERTY OF THE PR	10	1	avidant 1	A	10 (4.54)
Chloroacetaldehyde	494031	Naphthalenamine, N,N'-bis(2-chloroethyl)-	1*	4	U026	В	100 (45.4)
CHLOROALKYL ETHERS	107200	Acetaldehyde, chloro-	1*	4	P023	C	1000 (454)
-Chloroaniline	N.A.	2	1*	2	Market 1	San Property of	
Chlorobenzene	106478	Benzenamine, 4-chloro-	1*	4	P024	C	1000 (454)
Chlorobenzilate	108907	Benzene, chloro-	100	1,2,4	U037	В	100 (45.4)
The state of the s	510156	Benzeneacetic acid, 4-chloro-alpha-(4-	1*	4	U038	A	10 (4.54)

Carles - Carles	5410			Statutory		FII	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
1-Chloro-m-cresol	59507	p-Chloro-m-cresol	1*	2,4	U039	D	5000 (2270
-CROID-III-CI 6501	35301	Phenol, 4-chloro-3-methyl-	100		2000		
-Chloro-m-cresol	59507	Phenol, 4-chloro-3-methyl- 4-Chloro-m-cresol	1*	2,4	U039	D	5000 (2270
Shared Brown amount bonn	124481	4-011010-111-010301	10	2	Page 1	В	100 (45.4
Chlorodibromomethane	75003	The same of the sa	1*	2	THE PARTY	В	100 (45.4
-Chloroethyl vinyl ether	110758	Ethene, 2-chloroethoxy-	1.	2,4	U042	C	1000 (454
hioroform	67663	Methane, trichloro-	5000	1,2,4	U044	A	10 (4.54
chloromethyl methyl ether	107302	Methane, chloromethoxy-	1*	4	U046	A	10 (4.54
eta-Chloronaphthalene	91587	Naphthalene, 2-chloro- 2-Chloronaphthalene	1.	2,4	U047	D	5000 (2270
-Chloronaphthalene	91587	beta-Chloronaphthalene	1*	2,4	U047	D	5000 (2270
-Chlorophenol	95578	Naphthalene, 2-chloro- o-Chlorophenol	1*	2,4	U048	В	100 (45.4
-Chlorophenol	95578	Phenol, 2-chloro- Phenol, 2-chloro-	11	2,4	U048	В	100 (45.4
-Споториенования	000.0	2-Chlorophenol				1	
1-Chlorophenyl phenyl ether	7005723	The second second second second	1"	2		D	5000 (2270
-(o-Chlorophenyl)thiourea	5344821	Thiourea, (2-chlorophenyl)-	1.	4	P026	В	100 (45.
-Chloropropionitrile	542767	Propanenitrile, 3-chloro-	1*	4	P027	C	1000 (45
chlorosulfonic acid	7790945		1000		11040	C	1000 (45
-Chloro-o-toluidine, hydrochloride	3165933	Benzenamine, 4-chloro-2-methyl-, hydro- chloride	1.	4	U049	The Table	- Samuel
hlorpyrifos	2921882		1	1		X	1 (0.45
Chromic acetate	1066304	THE RESERVE THE PARTY OF THE PA	1000	1	DI	C	1000 (45
Chromic acid	11115745		1000	The state of		A	10 (4.5
	7738945		1000	HOOS SA	U032	A	10 (4.5
Chromic acid H2CrO4, calcium salt	13765190	Calcium chromate	1000	1,4	0002	C	1000 (45
Chromic sulfate	10101538	THE RESIDENCE OF THE PARTY OF T	1*	2		D	5000 (227
Chromium +1	7440473		1*	2		The Later of the L	
CHROMIUM AND COMPOUNDS	N.A. 10049055	A STATE OF THE PARTY OF THE PAR	1000	1		C	1000 (45
Chromous chloride	218019	1,2-Benzphenanthrene	1*	2,4	U050	В	100 (45
Cobaltous bromide	7789437	1,2-Bottzprioriantinono	1000		Land Mary	C	1000 (45
Cobaltous formate	544183		1000	1		C	1000 (45
Cobaltous sulfamate	14017415		1000	1		C	1000 (45
Coke Oven Emissions	N.A.		1.	3		X	1 (0.45
Copper cyanide CuCN	544923	Copper cyanide	1*	4		A	10 (4.5
Copper ††	7440508	The state of the s	15	2		D	5000 (227
COPPER AND COMPOUNDS	N.A.	CHICAGO TO THE STATE OF THE STA	1.	2		A	10 (4.5
Copper cyanide	544923	Copper cyanide CuCN	10	1	FUED	A	10 (4.5
Coumaphos	56724	The state of the s	1"	A	U051	X	1 (0.45
Creosote	8001589 1319773	Cresylic acid	1000	1,4	AND DESCRIPTION OF THE PARTY OF	C	1000 (45
Cresol(s)	1318/13	Phenol, methyl-		1	1	The same	
m-Cresol	108394	m-Cresylic acid		16E 162			1000
o-Cresol	95487	o-Cresylic acid	1000	NEW TO			Tolenhole .
p-Cresol	106445	p-Cresylic acid	1				1000 (4
Cresylic acid	1319773	Cresol(s)	1000	1,4	U052	C	1000 (43
		Phenol, methyl-	100	The state of			The state of the s
m-Cresol	108394	m-Cresylic acid	100		1	1	THE REAL PROPERTY.
o-Cresol	95487	o-Cresylic acid	1919	F EST	The state of the s	Marian Santa	THE WHATEVAL
p-Cresol	106445		100	1,4	U053	В	100 (45
Crotonaldehyde	123739 4170303	The contract of the contract o	100	1			
Curnene	98828		1.	4	U055	D	5000 (22
Cupric acetate	142712		100	1		В	100 (45
Cupric acetoarsenite	12002038		100	1		×	1 (0.4
Cupric chloride	(E) () () () () () () () () ()		10	1 - 1		A	10 (4.
Cupric nitrate	3251238		100		The state of	B	100 (45
Cupric oxalate			100		100	A	10 (4.
Cupric sulfate			100			B	100 (4
Cupric sulfate, ammoniated	10380297		100	WITT -		В	100 (4
Cupric tartrate	815827 N.A.		100	1	2	A LOURS	
CYANIDES Cyanides (soluble salts and complexes) not	57125		1*	1	THE PERSON NAMED IN	A	10 (4.
otherwise specified	150	Feb. and State	1*		4 P031	В	100 (4
Cyanogen			1"	100		C	1000 (4
Cyanogen bromide			1"		200 P200 C00 C00 C00 C00 C00 C00 C00 C00 C00	C	1000 (4
Cyanogen bromide (CN)Br			10	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	THE RESIDENCE	A	10 (4
Cyanogen chloride			10	1	12000000000000000000000000000000000000	A	10 (4.
Cyanogen chloride (CN)CI		TO SOME THE RESIDENCE OF THE PROPERTY OF THE P	1*	BIN T	A DESCRIPTION OF THE PROPERTY	A	10 (4.
2.5-Cyclohexadiene-1,4-dione	106514	Benzene, hexahydro-	1000	110	2011 1000000000000000000000000000000000	C	1000 (4

				Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)	
Cyclohexane, 1,2,3,4,5,6-hexachloro-,	58899	gamma—BHC	1	1,2,4	U129	x	1 (0.454	
(1alpha,2alpha,3beta,4alpha,5alpha, 6beta)-		Hexachlorocyclohexane (gamma isomer)						
Cyclohexanone	108941	Linding	10	4	U057	D	5000 (2270	
2-Cyclohexyl-4,6-dinitrophenol	131895	Phenol, 2-cyclohexyl-4,6-dinitro-	1*	4	P034	В	100 (45.4	
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexach-	77474	Hexachlorocyclopentadiene	1	1,2,4	U130	A	10 (4.54	
loro- Cyclophosphamide	50180	2H-1,3,2-Oxazaphosphorin-2-amine,	1.		11050		10 (15)	
AND THE RESERVE OF THE PARTY OF		N,N-bis(2-chloroethyl)tetrahydro-,2-oxide	100	4	U058	A	10 (4.54	
2,4-D Acid	94757	Acetic acid (2,4-dichlorophenoxy)-2,4-D,	100	1,4	U240	В	100 (45.4	
2,4-D Ester	94111	salts and esters	100	1	Contract of	В	100 (45.4	
meta proces	94791		UNIT TW			The second	100 (40.4	
DESCRIPTION OF THE PARTY OF THE	94804	Committee of the second	5031 10			TO STATE	(All The Land	
	1320189	The second that remind about 1 and 1 Spring						
Control of the control of	1928387 1928616		Nad was		1 34 6		The same of the	
	1929733	The second secon	Corr Corr		SHEET			
	2971382	The state of the s	29 02			100	A CONTRACTOR OF THE PARTY OF TH	
	25168267	The second second second	MA IS		the state			
24 D 11-	53467111	and the way way is a supply				12 300	STATE OF THE PERSON NAMED IN	
2,4-D, salts and esters	94757	Acetic acid (2,4-dichlorophenoxy)-2,4-D Acid	100	1,4	U240	В	100 (45.4	
Daunomycin	20830813	5,12-Naphthacenedione, 8-acetyl-10-[3-	1*	4	U059	A	10 (4.54	
		amino-2,3,6- trideoxy-alpha-L-lyxo-hexo-	-		0000	2	10 (4.54	
RAINAURE SELECTION OF THE SELECTION OF T		pyranosyl)oxy1-7,8,9,10- tetrahydro-	100		175	A TOUR DEST		
DDD	72548	6,8,11-trihydroxy-1-methoxy-, (8S-cis)- Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-	1	494	U060	×	1 10 15 1	
	12040	chloro-	166	1,2,4	0000	^	1 (0.454)	
AMERICAN ASSOCIATION AND U.S.		TDE	P-19 BY		MILE SAM	100		
4,4' DDD	70540	4,4' DDD						
4,4 000	72548	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-	1	1,2,4	U060	X	1 (0.454)	
		chloro- DDD	REAL PROPERTY.					
		TDE	Total Control		3.61	10000		
DDE	72559	4,4' DDE	1°	2		×	1 (0.454	
4,4' DDE	72559	DDE	1*	2	19219	X	1 (0.454	
DDT	50293	Benzene, 1,1'-(2,2,2-	1	1,2,4	U061	X	1 (0.454)	
		trichloroethylidene)bis[4-chloro- 4,4'DDT			100000	The state of	The state of the s	
4,4'DDT	50293	Benzene, 1,1'-(2,2,2-	1	1,2,4	U061	X	1 (0.454	
	C. Tomase	trichloroethylidene)bis[4-chloro-	201	1,22,7	0001		1 (0.454	
DDT AND METABOLITES		DDT	1 1				No Berlin	
Diallate	N.A. 2303164	Corporathicle sold high mathematics	12	2	Linna			
	2003104	Carbamothioic acid, bis(1-methylethyl)-, S- (2,3-dichloro-2-propenyl) ester	15	4	U062	В	100 (45.4)	
Diazinon	333415	(Life districted & propertyly ester	1	1		x	1 (0.454)	
Dibenz[a,h]anthracene	53703	Dibenzo[a,h]anthracene	1*	2,4	U063	X	1 (0.454)	
1,2:5,6-Dibenzanthracene	50700	1,2:5,6-Dibenzanthracene		290	0.000	To reserve him	100000000000000000000000000000000000000	
12.0,0 Dibonzaranacere	53703	Dibenz[a,h]anthracene Dibenzo[a,h]anthracene	1.	2,4	U063	X	1 (0.454)	
Dibenzo[a,h]anthracene	53703	Dibenz(a,h)anthracene	1*	2,4	U063	X	1 (0.454)	
		1,2:5,6-Dibenzanthracene		28 3 8	2000		1 (0.101)	
Dibenz[a,i]pyrene	189559	Benzo[rst]pentaphene	1*	4	U064	A	10 (4.54)	
1,2-Dibromo-3-chloropropane	96128 84742	Propane, 1,2-dibromo-3-chloro-	1*	4	U066	X	1 (0.454)	
	04/42	Di-n-butyl phthalate n-Butyl phthalate	100	1,2,4	U069	A	10 (4.54)	
ALONG THE ROLL OF STREET		1,2-Benzenedicarboxylic acid, dibutyl	5-17-50			on a tage		
		ester				-000 070		
Di-n-butyl phthalate	84742	Dibutyl phthalate	100	1,2,4	U069	A	10 (4.54)	
	100	n-Butyl phthalate						
THE RESERVE OF THE PARTY OF THE	100000	1,2-Benzenedicarboxylic acid, dibutyl				a resident		
	The state of the s	ester		100 010		0	1000 (454)	
Dicamba	1918009	ester	1000	1		10		
Dichlobenil	1194656	ester	1000 1000	1		В	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NAMED I	
Dichlobenil	1194656 117806	ester		7.0			100 (45.4)	
Dichlobenil	1194656 117806 25321226		1000 1 100	1 1		B X B	100 (45.4) 1 (0.454)	
Dichlobenil Dichlorobenzene 1,2-Dichlorobenzene	1194656 117806 25321226 95501	Benzene, 1,2-dichloro- o-Dichlorobenzene	1000 1 100 100	1 1 1 1,2,4	U070	B X B	100 (45.4) 1 (0.454) 100 (45.4) 100 (45.4)	
Dichlobenil Dichlore Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	1194656 117806 25321226 95501 541731	Benzene, 1,2-dichloro- o-Dichlorobenzene Benzene, 1,3-dichloro m-Dichlorobenzene	1000 1 100 100 1*	1 1 1 1,2,4 2,4	U071	B X B B	100 (45.4 1 (0.454) 100 (45.4 100 (45.4 100 (45.4	
Dichlobenil Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene n-Dichlorobenzene	1194656 117806 25321226 95501 541731 106467	Benzene, 1,2-dichloro- o-Dichlorobenzene Benzene, 1,3-dichloro m-Dichlorobenzene Benzene, 1,4-dichloro p-Dichlorobenzene	1000 1 100 100 1* 100	1 1 1,2,4 2,4 1,2,4	U071 U072	B X B B B B	100 (45.4 1 (0.45.4) 100 (45.4) 100 (45.4) 100 (45.4) 100 (45.4)	
Dichlobenil Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-DichlorobenzeneDichlorobenzeneDichlorobenzene	1194656 117806 25321226 95501 541731	Benzene, 1,2-dichloro- o-Dichlorobenzene Benzene, 1,3-dichloro m-Dichlorobenzene Benzene, 1,4-dichloro p-Dichlorobenzene Benzene, 1,3-dichloro 1,3-Dichlorobenzene	1000 1 100 100 1* 100 1*	1 1 1,2,4 2,4 1,2,4 2,4	U071 U072 U071	B X B B B B B	100 (45.4 1 (0.454 100 (45.4 100 (45.4 100 (45.4 100 (45.4 100 (45.4	
Dicamba Dichlopenil Dichlore Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-DichlorobenzeneDichlorobenzeneDichlorobenzeneDichlorobenzeneDichlorobenzeneDichlorobenzeneDichlorobenzene	1194656 117806 25321226 95501 541731 106467 541731	Benzene, 1,2-dichloro- o-Dichlorobenzene Benzene, 1,3-dichloro m-Dichlorobenzene Benzene, 1,4-dichloro p-Dichlorobenzene	1000 1 100 100 1* 100	1 1 1,2,4 2,4 1,2,4	U071 U072	B X B B B B	100 (45.4 1 (0.454 100 (45.4 100 (45.4 100 (45.4	

			ETH	Statutory		Fi	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Dichlorobromomethane	75274		12	2	The same	D	5000 (2270)
1,4-Dichloro-2-butene	764410	2-Butene, 1,4-dichloro-	10	4	U074	X	1 (0.454)
Dichlorodifluoromethane	75718	Methane, dichlorodifluoro-	1.	4	U075	D	5000 (2270)
1,1-Dichloroethane	75343	Ethane, 1,1-dichloro-	10	2,4	U076	C	1000 (454)
	7.0010	Ethylidene dichloride	MR CO	The same		District Land	1333 A 1334
1,2-Dichloroethane	107062	Ethane, 1,2-dichloro-	5000	1,2,4	U077	В	100 (45.4)
	10100	Ethylene dichloride	-	7,144,7			New Assessor
1,1-Dichloroethylene	75354	Ethene, 1,1-dichloro-	5000	1,2,4	U078	В	100 (45.4)
7. 5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5		Vinylidene chloride					
1,2-Dichloroethylene	156605	Ethene, 1,2-dichloro- (E)	10	2,4	U079	C	1000 (454)
Dichloroethyl ether	111444	Bis (2-chloroethyl) ether	1*	2,4	U025	A	10 (4.54)
		Ethane, 1,1'-oxybis[2-chloro-	3.15				The state of
Dichlorolsopropyl ether	108601	Propane, 2,2'-oxybis[2-chloro-	1*	2,4	U027	C	1000 (454)
Dichloromethoxy ethane	111911	Bis(2-chloroethoxy) methane	1*	2,4	U024	C	1000 (454)
District one of the control of the c	111311	Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro-	- 10	otus II	0024		
Dichloromethyl ether	542881	Methane, oxybis(chloro-	10	4	P016	A	10 (4.54)
2,4-Dichlorophenol	120832	Phenol, 2,4-dichloro-	1*	2,4	U081	8	100 (45.4)
2,6-Dichlorophenol	87650	Phenol, 2,6-dichloro-	1*	4	U082	В	100 (45.4)
Dichlorophenylarsine	696286	Arsonous dichloride, phenyl-	1*	4	P036	X	1 (0.454)
Dichloropropane	26638197	The state of the s	5000	1	M. P. Contraction	C	1000 (454)
1,1-Dichloropropane	78999	Contractores and the state of			-	1000	
1,3-Dichloropropane	142289		200000000000000000000000000000000000000	100000000000000000000000000000000000000	30000		7
1,2-Dichloropropane	78875	Propane, 1,2-dichloro-	5000	1,2,4	U083	C	1000 (454)
Dichloropropane—Dichloropropene (mix-	8003198	Propylene dichloride	5000	1	31 X 8	В	100 (45.4)
ture) Dichloropropene	26952238		5000	1	1000	В	100 (45.4)
2,3-Dichloropropene	78886	TO DO IN COMPLISHED TO THE PARTY OF THE PARTY.					
1,3-Dichloropropene	542756	1-Propene, 1,3-dichloro-	5000	1,2,4	U084	В	100 (45.4)
2,2-Dichloropropionic acid	75990		5000	1	1	D	5000 (2270)
Dichlorvos	62737	A stimulation with the column and the	10	1	-	A	10 (4.54)
Dicofol	115322		5000	1	1	A	10 (4.54)
Dieldrin	60571	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalph 7aalpha)-	1 na,7beta,	1,2,4	P037	×	1 (0.454)
1,2:3,4-Diepoxybutane	1464535	2,2'-Bioxirane	1*	4	U085	A	10 (4.54)
Diethylamine	109897		1000	1	1	В	1000 (45.4)
Diethylarsine	692422	Arsine, diethyl-	10	4	P038	X	1 (0.454)
1,4-Diethylenedioxide	123911	1,4-Dioxane	1.	4	U108	В	100 (45.4)
Diethylhexyl phthalate	117817	Bis (2-ethylhexyl)phthalate 1,2-Benzenedicarboxylic acid, [bis(2-eth- ylhexyl)] ester	1.	2,4	U028	В	100 (45.4)
N,N'-Diethylhydrazine	1615801	Hydrazine, 1,2-diethyl-	1.	4	U086	A	10 (4.54)
O,O-Diethyl S-methyl dithiophosphate	3288582	Phosphorodithioic acid, O,O-diethyl S- methyl ester	i	4	U087	Ď	5000 (2270)
Diethyl-p-nitrophenyl phosphate	311455	Phosphoric acid, diethyl 4-nitrophenyl ester	1.	4	P041	В	100 (45.4)
Diethyl phthalate	84662	1,2-Benzenedicarboxylic acid, diethyl ester	10	2,4	U088	C	1000 (454)
O,O-Diethyl O-pyrazinyl phosphorothioate	297972	Phosphorothioic acid, O,O-diethyl O-pyra- zinyl ester	1*	4	P040	В	100 (45.4)
Diethylstilbestrol	56531	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)	1*	4	U089	×	1 (0.454)
Dihydrosafrole	94586	1,3-Benzodioxole, 5-propyl-	1*	4	U090	A	10 (4.54)
Diisopropylfluorophosphate	55914	Phosphorofluoridic acid, bis(1-methylethyl) ester	1*	4	P043	В	100 (45.4)
1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-10-hexachloro- 1,4,4,5,8,8a-hexahydro-,	309002	ester Aldrin	1	1,2,4	P004	×	1 (0.454)
(1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-	465736	Isodrin	1*	4	P060	×	1 (0.454)
hexahydro, (1apha,4alpha,4abeta,5abeta,8beta, 8abeta)-2,7:3,6-Dimethanonaphth[2,3-b]oxir- ane, 3,4,5,6,9,9-hexachloro-	60571	Dieldrin	1	1,2,4	P037	x	1 (0.454)
1a.2.2a.3,6.6a.7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta, 6aalpha,7beta,7aalpha)-2,7:3,6-Dimethanon- aphth[2,3-b]oxirene,	72208	Endrin	1	1,2,4	P051	x	1 (0.454)
3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octa-hydro-,		Endrin, & metabolites	1 3 5 6		The state of	100	A SELECTION OF PARTY
(1aalpha,2beta,2abeta,3alpha,6alpha, 6abeta,7beta,7aalpha)-Dimethoate	60515	Phosphorodithioic acid, O,O-dimethyl S- [2(methylamino)-2-oxoethyl] ester	1*	4	P044	A	10 (4.54)

				Statutory		Fi	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
3,3'-Dimethoxybenzidine	119904	F1 1' Dishamil 4 Adiania a College					Particular of
Dimethylamine	124403	[1,1'-Biphenyl]-4,4'diamine,3,3'dimethoxy- Methanamine, N-methyl-	1*	4	U091	8	100 (45.4
p-Dimethylaminoazobenzene	60117	Benzenamine, N-Methyl-4-(phenylazo-)	1000	1,4	U092	C	1000 (454
7,12-Dimethylbenz[a]anthracene	57976		1.	4	U093	A	10 (4.54
3,3'-Dimethylbenzidine	119937	Benz[a]anthracene, 7,12-dimethyl-	1.	4	U094	X	1 (0.454
alpha,alpha-Dimethylbenzylhydroperoxide	80159	[1,1'Biphenyl]-4,4'-diamine,3,3'-dimethyl-	15	4	U095	A	10 (4.54
Dimethylcarbamoyl chloride	79447	Hydroperoxide, 1-methyl-1-phenylethyl-	1	4	U096	A	10 (4.54
1,1-Dimethylhydrazine	57147	Carbamic chloride, dimethyl-	1*	4	U097	X	1 (0.454
1,2-Dimethylhydrazine	540738	Hydrazine, 1,1-dimethyl-	1.	4	U098	A	10 (4.54
alpha,alpha-Dimethylphenethylamine	122098	Hydrazine, 1,2-dimethyl-	1*	4	U099	×	1 (0.454
2,4-Dimethylphenol	105679	Benzeneethanamine, alpha,alpha-dimethyl- Phenol, 2,4-dimethyl-	1*	4	P046	D	5000 (2270
Dimethyl phthalate	131113	1,2-Benzenedicarboxylic acid, dimethyl ester	1"	2,4	U101 U102	B	100 (45.4) 5000 (2270)
Dimethyl sulfate	77781	Sulfuric acid, dimethyl ester	1.	4	U103	0	100 115 1
Dinitrobenzene (mixed)	25154545	Contains doid, difficulty ester	1000	4	0103	B	100 (45.4)
m-Dinitrobenzene	99650	and an inches	1000		1	В	100 (45.4)
o-Dinitrobenzene	528290	- Control of the Cont	1 500			1	
p-Dinitrobenzene	100254	The state of the s	11 200		- TY 67		
4,6-Dinitro-o-cresol and salts	534521	Phenol, 2-methyl-4,6-dinitro-	44	0.4	00.17	1	
Dinitrophenol	25550587	Thonor, 2-methyr-4,0-dimino-	1000	2,4	P047	A	10 (4.54)
2,5-Dinitrophenol	329715	The second second second	1000	1		A	10 (4.54)
2,6-Dinitrophenol	573568						
2,4-Dinitrophenol	51285	Phenol, 2,4-dinitro-	4000	44.	20.45	A	
Dinitrotoluene	25321146	Friendi, 2,4-dirittio-	1000	1,2,4	P048	A	10 (4.54)
3,4-Dinitrotoluene	610399		1000	1,2		A	10 (4.54)
2,4-Dinitrotoluene	121142	Benzene, 1-methyl-2,4-dinitro-	1000			-	NAME OF THE PARTY
2,6-Dinitrotoluene	606202		1000	1,2,4	U105	A	10 (4.54)
Dinoseb	88857	Benzene, 2-methyl-1,3-dinitro-	1000	1,2,4	U106	В	100 (45.4)
Di-n-octyl phthalate	117840	Phenol, 2-(1-methylpropyl)-4,6-dinitro	1.	4	P020	C	1000 (454)
1,4-Dioxane	123911	1,2-Benzenedicarboxylic acid, dioctyl ester	11	2,4	U107	D	5000 (2270)
DIPHENYLHYDRAZINE	N.A.	1,4-Diethylenedioxide	1.	4	U108	В	100 (45.4)
1,2-Diphenylhydrazine	122667	Uhrdranina 4 O dishard	11	2	Warner .		
Diphosphoramide, octamethyl	152169	Hydrazine, 1,2-diphenyl-	1.	2,4	U109	A	10 (4.54)
Diphosphoric acid, tetraethyl ester	107493	Octamethylpyrophosphoramide	1.	4	P085	В	100 (45.4)
Dipropylamine	142847	Tetraethyl pyrophosphate	100	1,4	P111	A	10 (4.54)
Di-n-propylnitrosamine	621647	1-Propanamine, N-propyl-	1*	4	U110	D	5000 (2270)
Diquat	85007	1-Propanamine, N-nitroso-N-propyl-	1.	2,4	U111	A	10 (4.54)
	2764729		1000	1		C	1000 (454)
Disulfoton	298044	Obsenhovedithinin sold as district O.F.		100			V ARSW
	200044	Phosphorodithioic acid, o,o-diethyl S-[2-	1	1,4	P039	X	1 (0.454)
Dithiobiuret	541537	(ethylthio)ethyl]ester		NO I CAN		20	
	341337	Thioimidodicarbonic diamide E(H2N)	10	4	P049	В	100 (45.4)
Diuron	330541	C(S)]2NH	400		C-A		
Dodecylbenzenesulfonic acid	27176870		100	1		В	100 (45.4)
Endosulfan	115297	6,9-Methano-2,4,3-benzodioxathlepin,	1000	1	Doco	C	1000 (454)
Marie In Control of the Control of the	110201	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a- hexahydro-, 3-oxide	1	1,2,4	P050	×	1 (0.454)
lipha - Endosulfan	959988	TOTAL IT OF OARD	1.				
eta - Endosulfan	33213659	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	1.	2	0 3 - 1	X	1 (0.454)
ENDOSALFAN AND METABOLITES	N.A.		11	2 2		X	1 (0.454)
ndosulfan sulfate	1031078	ALL DESCRIPTION OF THE PARTY OF	A CONTRACTOR	277.00		v	
Endothall	145733	7-Oxabicyclo[2.2.1]heptane-2,3- dicarboxylic acid	1.	4	P088	C	1 (0.454) 1000 (454)
Endrin	72208	Endrin, & metabolites	1	1,2,4	P051	X	1 (0.454)
		2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9 -hexachloro-1a,2,2a,3,		1,2,4	1001	^	1 (0.454)
AND THE RESERVE OF THE PARTY OF	1000	6,6a,7,7a-octa-hydro-, (1aalpha.				PROPERTY.	
DACTION OF THE PARTY OF THE PAR	2000	2beta,2abeta,3alpha,6alpha,	7200			The state of the s	
CS SOCI TELL DE LA COLUMNIA DE LA CO	1900	6abeta,7beta, 7aalpha)-	1000	00 7 7		1000	
ndrin aldehyde	7421934	odbota, roota, radipilaj	1.	0			4 40 454
NDRIN AND METABOLITES	N.A.		10	2		X	1 (0.454)
ndrin, & metabolites	72208	Endrin	1	124	P051	X	4 /0 454
		2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,	1010	1,2,4	F051		1 (0.454)
Wilder of the second	100	6,6a,7,7a-octa-hydro-, (1aalpha, 2beta,2abeta,3alpha,6alpha,	130	1 10			
pichlorohydrin	400000	6abeta,7beta, 7aalpha)-		I IA			
DIGITIOTOTIVOTIN	106898	Oxirane, (chloromethyl)-	1000	1,4	U041	В	100 (45.4)
pinophrine	51434	1,2-Benzenediol,4-[1-hydroxy-2-	1"	4	P042	C	1000 (454)
plnephrine		The state of the s	100000		21111	DATE OF THE OWNER, THE	(1.04)
plnephrine	2000	(methylamino)ethyl]-	23.43			100	
pinephrinethanal	75070	Acetaldehyde	1000	1,4	U001	C	1000 (454)
thanal thanamine, N-ethyl-N-nitroso-	55185	Acetaldehyde N-Nitrosodiethylamine	1*	1,4	U001 U174	C	1000 (454) 1 (0.454)
pinephrinethanal		Acetaldehyde	A SANSILL .				

The second second	MALL WITH			Statutory		Fil	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Ethane, 1,1-dichloro-	75343	Ethylidene dichloride	1*	2,4	U076	C	1000 (454
Ethane, 1,2-dichloro-	107062	1,1-Dichloroethane Ethylene dichloride	5000	1,2,4	U077	В	100 (45.4
		1,2-Dichloroethane				and the latest of	400 (45 4
thanedinitrile	460195	Cyanogen	1:	4	P031 U131	B	100 (45.4
thane, hexachloro-	67721	Hexachloroethane Bis(2-chloroethoxy) methane Dichlorometh-	1*	2,4	U024	C	1000 (454
thane, 1,1'-[methylenebis(oxy)]bis(2- chloro-	111911	oxy ethane		-11	0021		
thane, 1,1'-oxybis-	60297	Ethyl ether	1*	4	U117	В	100 (45.4
thane, 1,1'-oxybis[2-chloro	111444	Bis (2-chloroethyl) ether Dichloroethyl ether	1.	2,4	U025	A	10 (4.54
thane, pentachloro	76017	Pentachloroethane	1"	4 4	U184 U208	AB	100 (45.4
thane, 1,1,1,2-tetrachloro-	630206 79345	1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	1*	2,4	U209	В	100 (45.4
thane, 1,1,2,2-tetrachlorothanethioamide	62555	Thioacetamide	10	4	U218	A	10 (4.54
thane, 1,1,1-trichloro-	71556	Methyl chloroform	1*	2,4	U226	C	1000 (454
		1,1,1-Trichloroethane			11007	0	100 /45
Ethane, 1,1,2-trichloro	79005	1,1,2-Trichloroethane	1.	2,4	U227 P066	B	100 (45.4
Ethanimidothioic acid, N-[[(methyl-	16752775	Methomyl	1.	4	1-000	0	100 (40.
amino)carbonyl]oxy]-, methyl ester	110805	Ethylene glycol monoethyl ether	1*	4	U359	C	1000 (454
thanol, 2-ethoxythanol, 2,2'-(nitrosoimino)bis	1116547	N-Nitrosodiethanolamine	1.	4	U173	X	1 (0.454
Inanone, 1-phenyl-	98862	Acetophenone	1*	4	U004	D	5000 (2270
Ethene, chloro	75014	Vinyl chloride	1*	2,3,4	U043	X	1 (0.454
Ethene, 2-chloroethoxy	110758	2-Chloroethyl vinyl ether	1* 5000	1,2,4	U042 U078	C	100 (45.4
Ethene, 1,1-dichloro-	75354	Vinylidene chloride 1,1-Dichloroethylene	5000	1,6,4	0070	1	
Ethene, 1,2-dichloro- (E)	156605	1,2-Dichloroethylene	1.	2,4	U079	C	1000 (454
Ethene, tetrachioro-	127184	Perchloroethylene	1*	2,4	U210	8	100 (45.4
		Tetrachloroethene				The same of	1000000
COLUMN THE RESERVE OF THE SHOPLES	-	Tetrachloroethylene	1000	1,2,4	U228	В	100 (45.4
Ethene, trichloro	79016	Trichloroethene	1000	1,6,4	0220	0	100 (10.
Ethion	563122	Trichloroethylene	10	1		A	10 (4.54
Ethyl acetate	141786	Acetic acid, ethyl ester	1*	4	U112	D	5000 (227)
Ethyl acrylate	140885	2-Propenoic acid, ethyl ester	1*	4	U113	C	1000 (454
Ethylbenzene	100414		1000	1,2	11000	В	1000 (45
Ethyl carbamate (urethane)	51796	Carbamic acid, ethyl ester	1"	4	U238 P101	A	10 (4.5
Ethyl cyanide	107120 111546	Propanenitrile Carbamodithioic acid, 1,2-ethanediylbis,	1*	4	U114	D	5000 (227)
esters	111340	salts & esters		THE WILL			20000 1200
Ethylenediamine	107153		1000	1	The same of	D	5000 (227)
Ethylenediamine-tetraacetic acid (EDTA)	60004	177	5000	1	U067	D	1 (0.45
Ethylene dibromide	106934	Ethane, 1,2-dibromo- Ethane, 1,2-dichloro-	1000	1,4		B	100 (45.
Ethylene dichloride	107062	1,2-Dichloroethane	3000	116-17	00		
Ethylene glycol monoethyl ether	110805	Ethanol, 2-ethoxy-	1*	4		C	1000 (45
Ethylene oxide		Oxirane	1*	4		A	10 (4.5
Ethylenethiourea	96457	2-Imidazolidinethione	1"	4	U116 P054	A	10 (4.5
Ethylenimine	151564	Aziridine	1*	4	U117	B	100 (45.
Ethyl ether	60297 75343	Ethane, 1,1'-oxybis- Ethane, 1,1-dichloro-	1*	2,4	U076	C	1000 (45
Euryndene dichloride	75545	1,1-Dichloroethane			222	1	
Ethyl methacrylate	97632	2-Propenoic acid, 2-methyl-, ethyl ester	1"	4		C	1000 (45
Ethyl methanesulfonate	62500	Methanesulfonic acid, ethyl ester	1"	4	U119 P097	X	1 (0.45
Famphur	52857	Phosphorothioic acid, O,[4-[(di-methyla- mino) sulfonyl] phenyl] O,O-dimethyl ester	1*	4	P097		
Ferric ammonium citrate	1185575	THE RESERVE TO STATE OF THE PARTY.	1000	1		C	1000 (45
Ferric ammonium oxalate	2944674	THE SEASON SHOULD SHOUL	1000	1		C	1000 (45
	55488874		1000	1	1 3	C	1000 (45
Ferric chloride	7705080 7783508		100	1	1	В	100 (45
Ferric nitrate	10421484	The second second second second	1000	1		C	1000 (48
Ferric sulfate	10028225	CHARLES CONTRACTOR	1000	1	1	C	1000 (45
Ferrous ammonium sulfate	10045893	Charles and the control of the contr	1000	9-1	BELLI	CB	1000 (45
Ferrous chloride	7758943	September 11 mental september 11	1000	1		C	1000 (45
Ferrous sulfate	7720787 7782630	Direction of the last of the l	1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10000		100
Fluoranthene	206440	Benzo[j,k]fluorene	1*	2,4	U120	В	100 (45
Fluorene			1.	2		D	5000 (22)
Fluorine	7782414		1"	4		A	10 (4.5
Fluoroacetamide		Acetamide, 2-fluoro-	1"	1 4		B	100 (45
Fluoroacetic acid, sodium salt		Acetic acid, fluoro-, sodium salt	1000	1,4		B	100 (45
Formaldehyde	50000		5000	1.4	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COLUMN TW	D	5000 (227

Horondone O. S. d.	0.000			Statutory		Fir	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Fulminic acid, mercury(2+)salt	628864	Mercury fulminate	1.	4	P065		10.015
Fumaric acid	110178	he to the test of	5000	NOC NO	P005	A	10 (4.54
Furan	110009	Furfuran	1*	4	U124	В	5000 (2270
Furan, tetrahydro	109999	Tetrahydrofuran	1*	4	U213	C	100 (45.4
2-Furancarboxaldehyde	98011	Furfural	1000	1,4	U125	D	1000 (454
2,5-Furandione	108316	Maleic anhydride	5000	1,4	U147	D	5000 (2270
Furfural	98011	2-Furancarboxaldehyde	1000	1,4	U125	D	5000 (2270
Furfuran	110009	Furan	1*	4	U124	В	5000 (2270
Glucopyranose, 2-deoxy-2-(3-methyl-3-ni-	18883664	D-Glucose, 2-deoxy-2-[[(methylnitrosoa-	10	4	U206	X	100 (45.4
trosoureido)-		mino)-carbonyl]amino] Streptozotocin	100	William II	0200	^	1 (0.454
D-Glucose, 2-deoxy-2-[[(methylnitrosoa-mino)-carbonyl]amino]	18883664	Glucopyranose, 2-deoxy-2-(3-methyl-3-ni- trosoureido)-	1*	4	U206	×	1 (0.454
Glyaldylaldahyda		Streptozotocin	THE PARTY NAMED IN			The same of	Charles and the
Slycidylaldehyde	765344	Oxiranecarboxyaldehyde	1*	4	U126	A	10 (4.54
Guanidine, N-methyl-N'-nitro-N-nitroso	70257	MNNG	10	4	U163	A	10 (4.54
Suthion	86500	Aller Blorgere will be did to	1	1	7 75	X	1 (0.454
ALOETHERS	N.A.	STATE OF THE PARTY	1*	2		30	
ALOMETHANES	N.A.		1*	2		The same of	
septachlor	76448	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-hep-	1	1,2,4	P059	X	1 (0.454
EDITAGINOS AUSTRALIA		tachloro-3a,4,7,7a-tetrahydro-	1 135	THE PARTY	1885	1000	1 (0.45)
EPTACHLOR AND METABOLITES	N.A.		17	2			-
leptachlor epoxide	1024573		1*	2		X	1 (0.454
lexachlorobenzene	118741	Benzene, hexachloro-	1*	2,4	U127	Â	10 (4.54
lexachlorobutadiene	87683	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	1.	2,4	U128	X	1 (0.454
HEXACHLOROCYCLOHEXANE (all isomers).	608731	Colors of the Co	1*	2	3.53		1 (0.454
lexachlorocyclohexane (gamma isomer)	58899	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha, 6beta)-gamma-BHC Lindane	1	1,2,4	U129	x	1 (0.454
lexachlorocyclopentadiene	77474	1,3-Cyclopentadiene,1,2,3,4,5,5-hexachloro-	1	104	U130		40.44.54
exachloroethane	67721	Ethane, hexachloro-	1.	1,2,4	U131	A B	10 (4.54
exachlorophene	70304	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	1.	2,4	U132	B	100 (45.4
lexachioropropene	1888717	1-Propene, 1,1,2,3,3,3-hexachloro-	1.	4	U243	C	100 (45.4
exaethyl tetraphosphate	757584	Tetraphosphoric acid, hexaethyl ester	1.	500			1000 (454
lydrazine	302012	Toursphone acid, nexactily ester	1.	4	P062	В	100 (45.4
lydrazine, 1,2-diethyl	1615801	N,N'-Diethylhydrazine	1.	4	U133	X	1 (0.454
ydrazine, 1,1-dimethyl	57147	1,1-Dimethylhydrazine	1.	19007 4	U086	A	10 (4.54
lydrazine, 1,2-dimethyl	540738	1,2-Dimethylhydrazine	1.	100	U098	A	10 (4.54
lydrazine, 1,2-diphenyl	122667	1,2-Diphenylhydrazine	1.	4	U099	×	1 (0.454
lydrazine, methyl	60344	Methyl hydrazine	10	2,4	U109	A	10 (4.54
ydrazinecarbothioamide	79196	Thiosemicarbazide	1.	4	P068	A	10 (4.54
ydrochloric acid	7647010	Hydrogen chloride	Control of the Control	4	P116	В	100 (45.4
ydrocyanic acid	74908	Hydrogen cyanide	5000		0000	D	5000 (2270
ydrofluoric acid	7664393	Hydrogen fluoride	10	1,4	P063	A	10 (4.54
lydrogen chloride	7647010	Hydrochloric acid	5000	1,4	U134	В	100 (45.4
ydrogen cyanide	74908	Hydrocyanic acid	5000	1		D	5000 (2270
ydrogen fluoride	7664393	Hydrofluoric acid	10	1,4	P063	A	10 (4.54
ydrogen sulfide	7783064		5000	1,4	U134	В	100 (45.4
ydrogen sulfide H2S	7783064	Hydrogen sulfide H2S Hydrogen sulfide	100	1,4	U135	В	100 (45.4
ydroperoxide, 1-methyl-1-phenylethyl	80159	alaba alaba se u u u	100	1,4	U135	В	100 (45.4
-Imidazolidinethione	96457	aipna,aipna-Dimethylbenzylhydroperoxide		4	U096	A	10 (4.54
deno(1,2,3-cd)pyrene	193395	Ethylenethiourea 1,10-(1,2-Phenylene)pyrene	1.	4	U116	A	10 (4.54
3-Isobenzofurandione	85449		11	2,4	U137	В	100 (45.4
obutyl alcohol	78831	Phthalic anhydride	1.	4	U190	D	5000 (2270
odrin	465736	1-Propanol, 2-methyl- 1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-	12	4 4	U140 P060	X	5000 (2270 1 (0.454
	100	hexahydro,	PART TEN	100	-	-CHINES	
ophorone	78591	(1alpha,4alpha,4abeta,5beta,		end . Lead	-SAGROO	La House to	
oprene	78795	8beta,8abeta)-	10	2	V	D	5000 (2270
opropanolamine dodecylbenzenesulfon- ate	42504461	Contract of the	1000	1		BC	100 (45.4 1000 (454
osafrole	120581	1,3-Benzodioxole, 5-)1-propenyl)-	1.		11144	0	400 711
2H)-Isoxazolone, 5-(aminomethyl)	2763964	Muscimol	1.	4	U141	B	100 (45.4)
	-	5-(Aminomethyl)-3-isoxazolol		4	P007	C	1000 (454)
epone	143500	1,3,4-Metheno-2H-cyclobutal[cd]pentalen- 2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlor-	1	1,4	U142	x	1 (0,454)
Sincarnina	0000	octahydro-	THE PERSON NAMED IN	E min	22.500		
asiocarpine	303344	2-Butenoic acid, 2-methyl-, 7[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-	1*	4	U143	A	10 (4.54)
ead ††	2 3 2	1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z), 7(2S*,3R*),7aalpha]]-			T mha	THE WATER	
	7439921		1*	2	and the same of th	property of the same of the same of	

				Statutory		Fi	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code†	RCRA Waste Number	Category	Pounds (Kg)
		Deliver of the second of the s	5000	1,4	U144	THE CHOICE	-
Lead acetate	301042	Acetic acid, lead(2+) salt	1*	2	0144		
LEAD AND COMPOUNDS	N.A.	The second second second		1		×	1 (0.454)
Lead arsenate	7784409	STATE OF STREET	5000	HON THE		0	10.10.1
	7645252		EL III	OF THE		100	The second
	10102484	William Townson Co.		00K1.60	U146	В	100 (45.4)
Lead, bis(acetato-O)tetrahydroxytri	1335326	Lead subacetate	1*	4	0140	В	100 (45.4)
Lead chloride			5000	711		В	100 (45.4)
ead fluoborate	13814965	Training to the State of Table	5000	1		B	100 (45.4)
Lead fluoride	7783462	AND THE PARTY OF T	1000	1		11/200	100 (45.4)
Lead Iodide	10101630	THE RESERVE THE PROPERTY AND ADDRESS.	5000	1		В	100 (45.4)
Lead nitrate		Committee of the commit	5000	1	11111	В	100 (45.4
Lead phosphate	7446277	Phosphoric acid, lead(2+) salt (2:3)	1*	4	U145		F000# (0070)
Lead stearate		This is also that I will be displayed about the	5000	1	The latest and the la	D	5000# (2270)
	1072351	of the factors and the second of the	254 353		-	THE STATE STATE OF	Thinks to see a series
	52652592		000		-	-	1
	56189094	A CONTROL OF THE PARTY OF THE P	1,400				400 (45.4
Lead subacetate	1335326	Lead, bis(acetato-O)tetrahydroxytri	1*	4	U146	В	100 (45.4
Lead sulfate	NAME OF STREET	Applications - pastering lines in	5000	1		В	100 (45.4)
	7446142	THE RESERVOIR OF THE PARTY OF T			1000	The state of	F000 W 100 W
Lead sulfide	100000000000000000000000000000000000000		5000	1	ALTERY	D	5000# (2270
Lead thiocyanate	V (COT WAS I	and the same of th	5000	1	1	В	100 (45.4
Lindane	- CO 0 0 0 0 0 0	Cyclohexane, 1,2,3,4,5,6-hexachloro-,	1	1,2,4	U129	X	1 (0.454
LIIUATO		(1alpha,2alpha,3beta,4alpha,5alpha,6beta)- gamma-BHC	C.F. STR			No.	00000000
		Hexachlorocyclohexane (gamma isomer)	1000000		1	Carried College	10 (4.54
Lithium chromate	14307358		1000	1	POSTERIOR I	A	100 (45.4
Malathion	121755	The second secon	10	1	1	B	
Maleic acid		Discussion In Law Englished	5000	1	more to	D	5000 (2270
Maleic anhydride		2,5-Furandione	5000	1,4	U147	D	5000 (2270
Maleic hydrazide		3,6-Pyridazinedione, 1,2-dihydro-	1*	4	U148	D	5000 (2270
Malononitrile	17.53 (3.53) (3.54)	Propanedinitrile	1*	4	U149	C	1000 (454
Melphalan		L-Phenylalanine, 4-[bis(2-chloroethyl) aminol]	1*	4	U150	X	1 (0.454
Mercaptodimethur	2032657		100	1	-	A	10 (4.54
Mercuric cyanide			1	1	The same of	X	1 (0.454
Mercuric nitrate			10	1	Taras -	A	10 (4.54
Mercuric sulfate			10	1		A	10 (4.54
Mercuric thiocyanate	The second second		10	1		A	10 (4.54
Mercurous nitrate	CAN SECTION OF THE PARTY OF THE		10	1		A	10 (4.54
Morourous indiate	7782867		Pos	100	brown to	270 Manne	0.00000
Mercury			1*	2,3,4	U151	X	1 (0.454
MERCURY AND COMPOUNDS			1*	2	1		and the second second
Mercury, (acetate-O)phenyl	2000	Phenylmercury acetate	1*	4	P092	В	100 (45.4
		Fulminic acid, mercury(2+)salt	1*	4	P065	A	10 (4.54
Mercury fulminate		2-Propenenitrile, 2-methyl-	1.	4	U152	C	1000 (454
Methacrylonitrile	71 ACC19991191	Dimethylamine	1000	1,4	U092	C	1000 (454
Methanamine, N-methyl-		N-Nitrosodimethylamine	1000	2,4	P082	A	10 (4.54
Methanamine, N-methyl-N-nitroso	V7.674.02.000	AND THE PROPERTY OF THE PROPER	1*	2,4	U029	C	1000 (454
Methane, bromo-		Methyl bromide	1.	2,4	U045	В	100 (45.4
Methane, chloro-		Methyl chloride Chloromethyl methyl ether	1*	4	U046	A	10 (4.54
Methane, chloromethoxy-		Chloromethyl methyl ether	11	4	U068	C	1000 (454
Methane, dibromo-		Methylene bromide	1.	2,4	U080	C	1000 (454
Methane, dichloro-	47144	Methylene chloride	1*	4	U075	D	5000 (2270
Methane, dichlorodifluoro			1.	4	U138	В	100 (45.4
Methane, iodo		Methyl iodide	1*	4	P064		#:
Methane, isocyanato		Methyl isocyanate	U (1941)	4	P016	A	10 (4.5
Methane, oxybis(chloro		Dichloromethyl ether	1 1	4		B	100 (45.
Methanesulfenyl chloride, trichloro	594423	Trichloromethanesulfenyl chioride	1 1	4	P118	X	1 (0.45
Methanesulfonic acid, ethyl ester			1*	4	U119	7.0	10 (4.5
Methane, tetrachloro-			5000	1,2,4	U211	A	100000000000000000000000000000000000000
Methane, tetranitro-		Tetranitromethane	1*	4	P112	A	10 (4.5
Methane, tribromo			1*	2,4	U225	В	100 (45.
Methane, trichloro	UF (23) (13) (19) (19)		5000	1,2,4	U044	A	10 (4.5
Methane, trichlorofluoro-		Trichloromonofluoromethane	1*	4	U121	D	5000 (227
Methanethiol		Methylmercaptan	100	1,4	U153	В	100 (45.
6,9-Methano-2,4,3-benzodioxathiepin,	115297	Thiomethanol Endosulfan	1	1,2,4	P050	×	1 (0.45
6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a- hexahydro-, 3-oxide	Tags	THE PART OF THE PARTY NAMED IN	14.00		11440		1 (0.45
1,3,4-Metheno-2H-cyclobutal[cd]pentalen- 2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlor-	143500	Kepone	1	1,4	U142	×	1 (0.45
octahydro-	70440	Hentachlor	1	1,2,4	P059	×	1 (0.45
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-hep-	76448	Heptachlor	1000	11001		The second second	

Harauta C. L.	-			Statuton	У	Fi	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-oc-	57749	Chlordane					
tachloro-2,3,3a,4,7,7a-hexahydro-		Chlordane, alpha & gamma isomers	1	1,2,4	U036	X	1 (0.454
Methanol	07504	Chlordane, technical					Same of the
Methapyrilene	67561		1*	4	U154	D	5000 (2270
	91805	I THE THE PROPERTY OF THE PROP	1*	4	U155	D	5000 (2270
Methomyl	16752775	dinyl-N'-(2-thienylmethyl)- Ethanimidothioic acid, N-[[(methyl-					
	110 Mary State 1 Age	Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester	1.	4	P066	В	100 (45.4)
Methoxychlor	72435	Benzene, 1,1'-(2,2,2-trichloroethylidene)	1	11	11047		V 22 30 10
Mathed att-1	13 11 10	bis[4-methoxy-		1,4	U247	×	1 (0.454)
Methyl alcohol	67561	Methanol	1*	4	U154	D	E000 (0070)
Methyl bromide	. 74839		1.	2.4	U029	C	5000 (2270)
1-Methylbutadiene	. 504609		1-	4	U186	В	1000 (454) 100 (45.4)
Methyl chlorocarbonate	74873	Methane, chloro-	1"	2,4	U045	8	100 (45.4)
mount of the control	79221	Carbonochloridic acid, methyl ester	1*	4	U156	C	1000 (454)
Methyl chloroform	74550	Methyl chloroformate					1000 (404)
	1	Ethane, 1,1,1-trichloro-	1.	2,4	U226	C	1000 (454)
Methyl chloroformate	79221	1.1,1-Trichloroethane					10000
	-	Carbonochloridic acid, methyl ester Methyl chlorocarbonate	1*	4	U156	C	1000 (454)
3-Methylcholanthrene	56495	Benz[j]aceanthrylene, 1,2-dihydro-3-	22	18 1 -13	Went -	2 00	TITE
	1 2 2 2	methyl-	1*	4	U157	A	10 (4.54)
4,4'-Methylenebis(2-chloroaniline)	101144	Benzenamine, 4,4'-methylenebis(2-chloro-	20	15 15	11450		
Methylene bromide	7/052	Methane, dibromo-	1.	4	U158	A	10 (4.54)
Methylene chloride	75092	Methane, dichloro-	1*	2,4	U068	C	1000 (454)
Methyl ethyl ketone (MEK)	78933	2-Butanone	1.	2,4	U080 U159	C	1000 (454)
Methyl ethyl ketone peroxide	1338234	2-Butanone peroxide	10	4	U160	A	5000 (2270)
Methyl hydrazine		Hydrazine, methyl-	1*	4	P068	Â	10 (4.54)
Methyl iodide	74884	Methane, iodo-	1.	4	U138	B	10 (4.54) 100 (45.4)
Methyl isocyanate	108101	4-Methyl-2-pentanone	1*	4	U161	D	5000 (2270)
2-Methyllactonitrile	624839	Methane, isocyanato-	1*	4	P064		##
	75865	Acetone cyanohydrin	10	1,4	P069	A	10 (4.54)
Methylmercaptan	74931	Propanenitrile, 2-hydroxy-2-methyl-	-				10 (1.01)
	11.700 00000	Methanethiol Thiomethanol	100	1,4	U153	В	100 (45.4)
Methyl methacrylate	80626	2.Proporoio gold 2	2000			The state of	
Methyl parathion	298000	2-Propenoic acid, 2-methyl-, methyl ester Phosphorothioic acid, O,O-dimethyl O-(4-	5000	1,4	U162	C	1000 (454)
	-	nitrophenyl) ester	100	1,4	P071	В	100 (45.4)
4-Methyl-2-pentanone	108101	Methyl isobutyl ketone	1.		11404	_	
Methylthiouracil	56042	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-	1.	4 4	U161 U164	D	5000 (2270)
Mordonbas		thioxo-	0110	Series Contraction of the last	0104	A	10 (4.54)
Mevinphos	7786347	THE RESERVE ASSESSMENT OF THE PARTY OF THE P	1	1	S. towns	A	10/454
Mexacarbate	315184		1000	1		ĉ	10 (4.54) 1000 (454)
	50077	Azirino[2',3'.3,4]pyrrolo[1,2-a]indole-4,7-dione,6-amino-8-[[(aminocarbonyl)oxy] methyl]-1,1a,2,8,8a,8b-hexahydro-8amethoxy-5-methyl- [1aS-(1aalpha, 8beta, 8aalpha, 8balpha)]-	1'	4	U010	A	10 (4.54)
MNNG	70257	Guanidine, N-methyl-N'-nitro-N-nitroso-	10		11400		NEW YORK
Monoethylamine	75047	, modernidoso-	1000	4	U163	A B	10 (4.54)
Monomethylamine	74895	The state of the s	1000	1	Acres de la constitución de la c	В	100 (45.4)
Muscimol	2763964	3(2H)-Isoxazolone, 5-(aminomethyl)- 5-	1*	4	P007	c	100 (45.4)
Naled	000705	(Aminomethyl)-3-isoxazolol	1000	HINEX I			1000 (454)
5,12-Naphthacenedione, 8-acetyl-10-[3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl)oxyl-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy- (8S-cist-	300765 20830813	Daunomycin	10	1 4	U059	A	10 (4.54) 10 (4.54)
-Naphthalenamine	134327	alpha-Naphthylamine		E E		WE PER	
-Naphthalenamine	91598	beta-Naphthylamine	1.	4		В	100 (45.4)
aphthalenamine, N.N'-bis(2-chloroethyl).	494031	Chlornaphazine	1.		U168	A	10 (4.54)
vapntnaiene	91203		5000		27001270	В	100 (45.4)
laphthalene, 2-chloro	91587	beta-Chloronaphthalene 2-Chloronaphtha-	1*		THE REST	B D	100 (45.4)
4-Nanhthalanadiana		lene	100	2,4	0041		5000 (2270)
.4-Naphthalenedione .7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(azo)]bis(5-amlno-4-hydroxy)-tetrasodium salt. laphthenic acid	130154 72571	1,4-Naphthoquinone Trypan blue	1.			D A	5000 (2270) 10 (4.54)
4-Naphthoquinone	1338245		100	1		В	100 (45.4)
lpha-Naphthylamine	130154	1,4-Naphthalenedione	1.			D	5000 (2270)
eta-Naphthylamine		1-Naphthalenamine	1.			В	100 (45.4)
	91598	2-Naphthalenamine	1.		20022243	A	
pha-Naphthylthiourea		Thiourea, 1-naphthalenyl-	1*	1000	0100	^	10 (4.54)

DI BEST OF THE SECOND SECOND	WED L			Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg	
lickel ammonium sulfate	15699180	CONTRACTOR OF THE PARTY OF THE	5000	1	CO. C. C. C.	В	100 (45	
ICKEL AND COMPOUNDS	N.A.		1*	2	Toute	Contract Charles	EE SHOWING	
lickel carbonyl	13463393	Nickel carbonyl Ni(CO)4, (T-4)-	1*	4	P073	A	10 (4.5	
		Nickel carbonyl	10	4	P073	A	10 (4.5	
lickel carbonyl Ni(CO)4, (T-4)	13463393	Nickel Carbonyi	5000		1010	В	100 (45	
ickel chloride	7718549	The state of the s	5000			0	100 610	
	37211055		111222	1 30	0074		10 141	
ickel cyanide	557197	Nickel cyanide Ni(CN)2	1*	4	P074	A	10 (4.1	
ickel cyanide Ni(CN)2	557197	Nickel cyanide	1*	4	P074	A	10 (4.5	
ickel hydroxide	12054487		1000	1		A	10 (4.5	
ickel nitrate	14216752		5000	1		В	100 (45	
ickel sulfate	7786814		5000	1		В	100 (45	
	54115	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-	1*	4	P075	В	100 (45	
cotine, & salts		Fyndine, 3-(1-methyrz-pynondiny), tot-	1000	4		C	1000 (4	
tric acid	7697372				11017	В	100 (45	
tric acid, thallium (1+) salt	10102451	Thallium (I) nitrate	1.	4	U217			
tric oxide	10102439	Nitrogen oxide NO	1*	4	P076	A	10 (4.	
Nitroaniline	100016	Benzenamine, 4-nitro-	1*	4	P077	D	5000 (22	
itrobenzene	98953	Benzene, nitro-	1000	1,2,4	U169	C	1000 (4	
	10102440	Nitrogen oxide NO2	1000	1,4	P078	A	10 (4.	
trogen dioxide		and got ondo not	3772	III TO THE PARTY OF	10000000	-	100	
and the second s	10544726	Attack audde	1*	4	P076	IA	10 (4.	
itrogen oxide NO	10102439	Nitric oxide		4	10000000000	A		
trogen oxide NO2	10102440	Nitrogen dioxide	1000	1,4	P078	A	10 (4.	
The second secon	10544726	District Control of the Control of t	1000		1	The same of	Hiller Oldson	
itroglycerine	55630	1,2,3-Propanetriol, trinitrate-	1*	4	P081	A	10 (4.	
	25154556	Target Supported and American	1000	4		В	100 (4	
trophenol (mixed)		The same of the sa	1000	- H	1	В	100 (4	
rn-Nitrophenol	554847	(6 kg) - 1 - 1	UAL TER	20,000	100		100 (1)	
o-Nitrophenol	88755	2-Nitrophenol	***************************************		-	ALC: UNITED IN		
p-Nitrophenol	100027	Phenol, 4-nitro- 4-Nitrophenol				A STATE OF THE PARTY OF		
Nitrophenol	88755	2-Nitrophenol	1000	1,2		B	100 (4)	
Nitrophenol	100027	Phenol, 4-nitro- 4-Nitrophenol	1000	1,2,4	U170	В	100 (4	
	88755	o-Nitrophenol	1000	1,2	and the second	В	100 (4	
Nitrophenol			1000		U170	В	100 (4	
Nitrophenol	100027	p-Nitrophenol Phenol, 4-nitro-		1,2,4	0170	0	100 (1	
TROPHENOLS	N.A.		1.	2	V. Indiana			
Nitropropane	79469	Propane, 2-nitro-	1*	4	U171	A	10 (4.	
TROSAMINES	N.A.		1*	2			The state of the s	
Nitrosodi-n-butylamine	924163	1-Butanamine, N-butyl-N-nitroso-	1*	4	U172	A	10 (4.	
	1116547	Ethanol, 2,2'-(nitrosoimino)bis-	1*	4	U173	X	1 (0.4	
-Nitrosodiethanolamine			1*	4	U174	X	1 (0.4	
-Nitrosodlethylamine	55185	Ethanamine, N-ethyl-N-nitroso-	200110	1 0 000		1 10.00	10 (4.	
-Nitrosodimethylamine	62759	Methanamine, N-methyl-N-nitroso-	1*	2,4	P082	A		
-Nitrosodiphenylamine	86306		1"	2		В	100 (4	
Nitroso-N-ethylurea	759739	Urea, N-ethyl-N-nitroso-	1*	4	U176	X	1 (0.4	
Nitroso-N-methylurea	684935	Urea, N-methyl-N-nitroso	1*	4	U177	X	1 (0.4	
	615532	Carbamic acid, methylnitroso-, ethyl ester	1*	4	U178	X	1 (0.4	
Nitroso-N-methylurethane			1*	4	P084	A	10 (4	
-Nitrosomethylvinylamine	4549400	Vinylamine, N-methyl-N-nitroso-		The second second			10 (4	
Nitrosopiperidine	100754	Piperidine, 1-nitroso-	1.	4	U179	A		
-Nitrosopyrrolidine	930552	Pyrrolidine, 1-nitroso-	1*	4	U180	X	1 (0.4	
itrotoluene	1321126	Contract Con	1000	1	COSSUS .	C	1000 (4	
m-Nitrotoluene	99081	The state of the s	7.74		1000	1 3 / 1	100	
				1000	I I I I I I I I I I I I I I I I I I I			
o-Nitrotoluene	88722	THE RESIDENCE OF THE PARTY OF T		ALC: NO	No.	I Charles		
p-Nitrotoluene	99990	2 2 2 3 6 7 7 7 7	13	2	11000	В	100 (4	
Nitro-o-toluidine	99558	Benzenamine, 2-methyl-5-nitro-	1*	4	U181			
ctamethylpyrophosphoramide	152169	Diphosphoramide, octamethyl-	1*	4	P085	В	100 (4	
smium oxide OsO4 (T-4)-	20816120	Osmium tetroxide	1*	4	P087	C	1000 (4	
smium tetroxide	20816120	Osmium oxide OsO4 (T-4)-	1*	4	P087	C	1000 (4	
Oxabicyclo[2.2.1]heptane-2,3-	145733	Endothall	1.	4	P088	C	1000 (4	
	140733	Lindowan						
dicarboxylic acid	*****	4 2 December and	1*		U193	A	10 (4	
2-Oxathiolane, 2,2-dioxide	1120714	1,3-Propane sultone		4				
H-1,3,2-Oxazaphosphorin-2-amine, N,N-	50180	Cyclophosphamide	1*	4	U058	A	10 (4	
bis(2-chloroethyl)tetrahydro-, 2-oxide			- 1.37	100000	- Swamer L	PONTHE LA		
xirane	75218	Ethylene oxide	1*	4	U115	A	10 (4	
xiranecarboxyaldehyde	765344	Glycidylaidehyde	1*	4	U126	A	10 (4	
			1000	1,4	U041	В	100 (4	
kirane, (chloromethyl)		Epichlorohydrin			10000	C	1000 (
raformaldehyde	30525894		1000	1	11400		1000 (
raldehyde		1,3,5-Trioxane, 2,4,6-trimethyl-	15	4	U182	C	1000000	
arathion		Phosphorothioic acid, O,O-diethyl O-(4-ni-	1	1,4	P089	A	10 (4	
		trophenyl) ester	DO PE	No. of the second		The state of the s	Manager Carrier	
entachlorobenzene	608935	Benzene, pentachloro-	1*	4	U183	A	10 (4	
			1.	4	U184	A	10 (4	
entachloroethane	76017	Ethane, pentachloro-		4			7172011	
entachloronitrobenzene (PCNB)	82688	Benzene, pentachloronitro-	1*	4	U185	В	100 (4	
entachlorophenol		Phenol, pentachloro-	10	1,2,4	U242	A	10 (4	
3-Pentadiene		1-Methylbutadiene	1"	4	U186	В	100 (
	(2) D (2) B (2) B (2)	Ethene, tetrachioro- Tetrachioro- ethene	10	2,4	U210	В	100 (4	
erchloroethylene	12/104		1	1	1000	1000		
	100000	Tetrachloroethylene	NURS IS	BOLD .	11407	0	100 (
henacetin		Acetamide, N-(4-ethoxyphenyl)-	10	4	U187	B	100 (4	
henanthrene	85018	THE RESERVE TO SHARE THE PARTY OF THE PARTY	1°	2		D	5000 (2	
	108952	Benzene, hydroxy-	1000	1,2,4	U188	C	10000	

Phenol, 2-chloro	95578	Regulatory Synonyms	RQ	Code †	RCRA		
Phenol, 2-cyclohexyl-4,6-dinitro- Phenol, 2,4-dichloro- Phenol, 2,6-dichloro- Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-	95578				Waste Number	Category	Pounds (Kg)
Phenol, 2-cyclohexyl-4,6-dinitro- Phenol, 2,4-dichloro- Phenol, 2,6-dichloro- Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-	FOFOT	o-Chlorophenol 2-Chlorophenol			992/927	250	
Phenol, 2-cyclohexyl-4,6-dinitro- Phenol, 2,4-dichloro- Phenol, 2,6-dichloro- Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-	59507	p-Chloro-m-cresol	1*	2,4	U048	В	100 (45.4)
Phenol, 2,4-dichloro- Phenol, 2,6-dichloro- Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-		4-Chloro-m-cresol	3.20	2,4	U039	D	5000 (2270)
Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-	131895	2-Cyclohexyl-4,6-dinitrophenol	1*	4	P034	В	400 145 11
Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-	120832	2,4-Dichlorophenol	10	2,4	U081	B	100 (45.4)
(E)	87650	The state of the s	10	4	U082	В	100 (45.4)
	56531	Diethylstilbestrol	1*	4	U089	×	100 (45.4)
Phenol, 2,4-dimethyl-	105070		1000			The state of the s	1 (0.454)
Phenol, 2,4-dinitro-	105679 51285	2,4-Dimethylphenol	12	2,4	U101	8	100(45.4)
Phenoi, methyl	1310773	2,4-Dinitrophenol Cresol(s) Cresylic acid	1000	1,2,4	P048	A	10 (4.54)
m-Cresol	108304	m-Cresylic acid	1000	1,4	U052	C	1000 (454)
o-Cresol	05497	o-Cresylic acid	3 300			100000	
p-Cresol	100445	p-Cresylic acid			1		
Phenol, 2-methyl-4,6-dinitro-	534521	4,6-Dinitro-o-cresol and salts	1*	2,4	DOAT		CONTROL OF THE PARTY OF THE PAR
Phenol, 2,2'-methylenebis[3,4,6-trichloro	70304	Hexachlorophene	1.	4	P047 U132	A B	10 (4.54)
Phenol, 2-(1-methylpropyl)-4,6-dinitro	88857	Dinoseb	1*	4	P020	C	100 (45.4)
Phenol, 4-nitro-	. 100027	p-Nitrophenol	1000	1,2,4	U170	В	1000 (454)
Phenol, pentachloro-	07005	4-Nitrophenol	A PORT	3100	0.0000	Section 1	100 (45.4)
Friendi, 2,3,4,6-tetrachioro-	50000	Pentachlorophenol	10	1,2,4	U242	A	10 (4.54)
rnenol, 2,4,5-thchloro-	05054	2,3,4,6-Tetrachlorophenol	1*	4	U212	A	10 (4.54)
Phenoi, 2,4,6-trichloro-	88062	2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	10	1,4	U230	A	10 (4.54)
Phenol, 2,4,6-trinitro-, ammonium salt	131748	Ammonium picrate	10	1,2,4	U231	A	10 (4.54)
L-Phenylalanine, 4-[bis(2-chloroethyl)	148823	Melphalan	1:	4	P009	A	10 (4.54)
aminol]	2 12 14			4	U150	X	1 (0.454)
1,10-(1,2-Phenylene)pyrene	193395	Indeno(1,2,3-cd)pyrene	1*	2,4	U137		222.000
Phenylmercury acetate	62384	Mercury, (acetato-O)phenyl-	1*	4	P092	B	100 (45.4)
Phenylthiourea. Phorate	103855	Thiourea, phenyi-	4.0	4	P093	8	100 (45.4)
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	298022	Phosphorodithioic acid, O,O-diethyl S-(eth-	1.	4	P094	A	100 (45.4)
Phosgene	75445	yitnio), methyl ester		ALCOHOL:			10 (4.54)
Phosphine	7900540	Carbonic dichloride	5000	1,4	P095	A	10 (4.54)
Phosphoric acid	7664202		1.	4	P096	В	100 (45.4)
Phosphoric acid, diethyl 4-nitrophenyl ester	311455	Diethyl-p-nitrophenyl phosphate	5000	1	-	D	5000 (2270)
Phosphoric acid, lead(2+) salt (2-3)	7446277	Lead phosphate	1.	4	P041	В	100 (45.4)
Phosphorodithioic acid, O.O-diethyl S-12-	298044	Disulfoton	1"	4	U145		#
(ethylthio)ethyl]ester			1	1,4	P039	X	1 (0.454)
Phosphorodithioic acid, O,O-diethyl S-(eth-	298022	Phorate	1.	4	P094	A	
ylthio), methyl ester Phosphorodithioic acid. O.O-diethyl S.			3 7		FU94	A	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S- methyl ester	3288582	O,O-Diethyl S-methyl dithiophosphate	1.	4	U087	D	5000 (2270)
Phosphorodithioic acid, O,O-dimethyl S-	60545		-71-1			Salar III	3000 (2270)
12(methylamino)-2-oxoethyl1 ester	60515	Dimethoate	1.	4	P044	A	10 (4.54)
Phosphorofluoridic acid, bis(1-methylethyl)	55914	Dijeonropulfilusenhamban			72640	100	(1.54)
ester	00014	Diisopropylfluorophosphate	1.	4	P043	8	100 (45.4)
Phosphorothioic acid, O,O-diethyl O-(4-ni-	56382	Parathion		3.0	STATE OF THE PARTY	DESIGNATION OF	
tropnenyi) ester			1	1,4	P089	A	10 (4.54)
Phosphorothioic acid, O,[4-[(dimethyla-	52857	Famphur	1.	4	P097		
mino) sulfonyl]phenyl]O,O-dimethyl ester	tu tu		100	4	P097	C	1000 (454)
Phosphorothioic acid, O,O-dimethyl O-(4- nitrophenyl) ester	298000	Methyl parathion	100	1,4	P071	В	100 /45 1
Phosphorothioic acid, O,O-diethyl O-pyra-	- Commence of the		- 0/-	2 2 THE	1000		100 (45.4)
zinyi ester.	297972	O,O-Diethyl O-pyrazinyl phosphorothioate	1"	4	P040	В	100 (45.4)
Phosphorus	7723140	TOTAL TOTAL CONTROL OF	DOLL 1 2015	100	200 M		(10.4)
Phosphrous oxycloride	10025873	And the Control of th	1	1		×	1 (0.454)
rnosphorus pentasulfide.		Phosphorus sulfide Sulfur phosphide	5000	1		C	1000 (454)
rnosphorus sulfide	1314803	Phosphorus pentasulfide Sulfur phosphide	100			В	100 (45.4)
rnosphorus trichloride	7719122	Politica Gallur priosphide	5000	N/2011 S		B	100 (45.4)
PHIMALATE ESTERS	N.A.	District of the latest	1*	1	The state of the s	C	1000 (454)
riunalic annydride	85449	1,3-Isobenzofurandione	1.	2 4	U190	0	F000 (007)
2-Picoline		Pyridine, 2-methyl-	11	1000		D	5000 (2270)
Plumbane, tetraethyl-		N-Nitrosopiperidine	1*		THE COLUMN TO THE PARTY OF THE	A	5000 (2270) 10 (4.54)
PULYCHLORINATED BIPHENYLS (PCRe)		Tetraethyl lead	100	USSO IS		A	10 (4.54)
Arocior 1016	1336363	POLYCUI OPINIATED DIVISION A	10	1,2	C. C	X	1 (0.454)
Arocior 1221	11104282	POLYCHLORINATED BIPHENYLS (PCBs)				Langue De la langue	
Aroclor 1232		POLYCHLORINATED BIPHENYLS (PCBs) POLYCHLORINATED BIPHENYLS (PCBs)			17.3 m at 1		
Aroclor 1242							
Aroclor 1248		POLYCHLORINATED BIPHENYLS (PCBs)					
Aroclor 1254	11097691	POLYCHLORINATED BIPHENYLS (PCRs)			-	-	
Aroclor 1260	11096825	POLYCHLORINATED BIPHENYLS (PCBs)					
POLYNUCLEAR AROMATIC HYDROCAR- BONS.	N.A.	, COS)	1*	2	BILL		
Potassium arsenate	7784410	The state of the s			Constant of the last of the la	AL THE	1

CHARLES AND AND ADDRESS OF THE PARTY OF THE	THE PARTY NAMED IN			Statutory	1	Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg	
	10101500		1000	1		×	1 (0.45	
otassium arsenite	10124502		1000	1		A	10 (4.5	
otassium bichromate	7778509	Carles and the contract of the	1000	- 1		A	10 (4.5	
otassium chromate	7789006	Detection avanida V (CN)	10	1,4	P098	A	10 (4.5	
otassium cyanide	151508	Potassium cyanide K (CN)	10	1,4	P098	A	10 (4.5	
otassium cyanide K(CN)	151508	Potassium cyanide	1000	1	1000	C	1000 (45	
otassium hydroxide	1310583	S. Land and S. L.	100	1	311	В	100 (45.	
otassium permanganate	7722647	A TANK AND A STATE OF THE ASSESSMENT	1*	4	P099	X	1 (0.45	
otassium silver cyanide	506616 23950585	Argentate (1-), bis(cyano-C)-, potassium Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-	10	4	U192	Ď	5000 (227	
ropanal, 2-methyl-2-(methylthio)-, O-	116063	propynyl)- Aldicarb	1"	4	P070	×	1 (0.45	
[(methylamino)carbonyl]oxime	107100	n Promilemina	10	4	U194	D	5000 (227	
Propanamine	107108	n-Propylamine	10	4	U110	D	5000 (227	
Propanamine, N-propyl-	142847	Dipropylamine	1.	2,4	U111	A	10 (4.5	
Propanamine, N-nitroso-N-propyl	621647	Di-n-propylnitrosamine	10	4	U066	X	1 (0.45	
ropane, 1,2-dibromo-3-chloro	96128	1,2-Dibromo-3-chloropropane	10	4	U171	A	10 (4.5	
ropane, 2-nitro-	79469	2-Nitropropane	10	4	U193	A	10 (4.5	
3-Propane sultone	1120714	1,2-Oxathiolane, 2,2-dioxide	5000	1,2,4	U083	C	1000 (45	
ropane, 1,2-dichloro-	78875	Propylene dichloride 1,2-Dichloropropane				1	-	
ropanedinitrite	109773	Malononitrile	1*	4	U149	C	1000 (45	
ropanenitrile	107120	Ethyl cyanide	1*	4	P101	A	10 (4.5	
ropanenitrile, 3-chloro	542767	3-Chloropropionitrile	1	4	P027	C	1000 (4	
ropanenitrile, 2-hydroxy-2-methyl	75865	Acetone cyanohydrin 2-Methyllactonitrile	10	1,4	P069	A	10 (4.	
ropane, 2,2'-oxybis[2-chloro	108601	Dichloroisopropyl ether	1*	2,4	U027	C	1000 (4	
	55630	Nitroglycerine	1*	4	P081	A	10 (4.	
2,3-Propanetriol, trinitrate-	126727	Tris(2,3-dibromopropyl) phosphate	1*	4	U235	A	10 (4.	
Propanol, 2,3-dibromo-, phosphate (3:1)	78831	Isobutyl alcohol	1*	4	U140	D	5000 (22)	
Propanol, 2-methyl-	67641	Acetone	1*	4	U002	D	5000 (22)	
Propanone	598312	Bromoacetone	1*	4	P017	C	1000 (4	
Propanone, 1-bromo-		Bromoacetone	10	4	1011	A	10 (4.	
opargite		O December 4 of	1*	4	P102	C	1000 (4	
ropargyl alcohol	107197	2-Propyn-1-ol	4	1,2,4	P003	X	1 (0.4	
Propenal	107028	Acrolein	10	4	U007	D	5000 (22	
-Propenamide	79061	Acrylamide	1*	4	U243	C	1000 (4	
-Propene, 1,1,2,3,3,3-hexachloro	1888717	Hexachloropropene	5000	1,2,4	U084	8	100 (45	
-Propene, 1,3-dichloro		1,3-Dichloropropene	100	1,2,4	U009	В	100 (45	
-Propenenitrile		Acrylonitrile Methacrylonitrile	1*	4	U152	C	1000 (4	
Propenenitrile, 2-methyl-		Acrylic acid	1*	4	U008	D	5000 (22	
-Propenoic acid	79107		1.	4	U113	C	1000 (4	
Propenoic acid, ethyl ester		Ethyl acrylate	1*	4	U118	C	1000 (4	
Propenoic acid, 2-methyl-, ethyl ester		Ethyl methacrylate	5000	1,4	U162	C	1000 (4	
-Propenoic acid, 2-methyl-, methyl ester	80626	Methyl methacrylate	100	1,4	P005	В	100 (45	
-Propen-1-01		Allyl alcohol	5000	1	1 000	D	5000 (22	
ropionic acid	79094 93721	Silvex (2,4,5-TP)	100	1,4	U233	В	100 (45	
	-	2,4,5-TP acid	5000	4	100	D	5000 (22	
Propytamine		1-Propanamine	1*	4	U194	D	5000 (22	
Propylene dichloride		Propane, 1,2-dichloro-	5000	1,2,4	U083	C	1000 (4	
	70000	1,2-Dichloropropane	5000	1		В	100 (45	
ropylene oxide		Ariedina 2 mathed	1*	4	P067	×	1 (0.4	
2-Propylenimine	75558	Aziridine, 2-methyl-	1*	4	P102	Ĉ	1000 (4	
Propyn-1-ol		Propargyl alcohol	10	2	1000	D	5000 (22	
yrene	129000		1000	1		×	1 (0.5	
yrethrins	121299	The second secon	,000	EDIEC IL			The Parkets	
	121211 8003347	A CONTRACTOR OF THE PARTY OF TH	1 = 1 10	1017 3	TO THE REAL PROPERTY.			
C Duideningdings 4 C diludes		Maleic hydrazide	1*	4	U148	D	5000 (22	
,8-Pyridazinedione, 1,2-dihydro		4-Aminopyridine	1*	4	P008	C	1000 (4	
-Pyridinamine		- Adminopyramie	1*	4	U196	C	1000 (4	
yridineyridine, 2-methyl		2-Picoline	1*	4	U191	D	5000 (22	
yridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)	54115	1 (TA) (TC) 12 A.— (A)—	1*	4	P075	В	100 (4	
4-(1H,3H)-Pyrimidinedione, 5-[bis(2-	66751	Uracil mustard	1*	4	U237	A	10 (4	
chloroethyl)amino]- (1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-	56042	Methylthiouracil	1*	4	U164	A	10 (4	
thicxo-			10	PARTY .	Luca	V	1.0	
yrrolidine, 1-nitroso	930552		1*	4	U180	X	1 (0.4	
Quinoline	91225		1000	1	PULLUS TO	D	5000 (22	
RADIONUCLIDES	N.A.		1*	3		0	E000 (0)	
Reserpine	50555		1.	4	U200	D	5000 (22	
	and the same of	methyl ester (3beta, 16beta,17alpha,18beta,20alpha)-	100	E TOTAL	The same of		3	

11 Japan Parket	-			Statutor	У	Final RQ		
Hazardous Substance	CASRN	Regulatory Syrionyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)	
Saccharin and salts	81072	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide	1*		11000		grannia i	
Safrole	94597	1,3-Benzodioxole, 5-(2-propenyl)-	1.	4		8	100 (45.4	
Selenious acid	7783008	i i i i i i i i i i i i i i i i i i i	1.	4		B	100 (45.4	
Selenious acid, dithallium (1+) sait	12039520	Thaillum selenite	1.	4	20000	A	10 (4.54	
Selenium ††	7782802		1.	2		C	1000 (454	
SELENIUM AND COMPOUNDS	N.A.		1*	2		8	100 (45.4	
Selenium dioxide	7446084		1000	1,4		A	10 (4 54	
Selenium oxide	7446084	Selenium dioxide	1000	1,4		A	10 (4.54	
Selenium sulfide	7488564		1*	4		A	10 (4.54	
Selenium sulfide SeS2	7488564	Selenium sulfide	1 10	4	U205	A	10 (4.54	
Selenourea	630104		1*	4	P103	C	10 (4.54)	
L-Serine, diazoacetate (ester)	115026		1.	4	U015	X		
Silver ††	7440224		1*	2	0010	Ĉ	1 (0.454)	
SILVER AND COMPOUNDS	N.A.		1*	2			1000 (454)	
Silver cyanide	506649	Silver cyanide Ag (CN)	1.	4	P104	×	1 (0.454)	
Silver cyanide Ag (CN)	506649	Silver cyanide	1*	4	P104	x	1 (0.454)	
Silver nitrate	7761888		1	1		x	1 (0.454)	
Silvex (2,4,5-TP)	37.00	Propionic acid, 2-(2,4,5-trichlorophenoxy)- 2,4,5-TP acid	100	1,4	U233	B	100 (45.4)	
Sodium			1000	1	La de	A	10 (4.54)	
Sodium arsenate	7631892		1000	1		X	1 (0.454)	
Sodium arsenite	7784465	The state of the s	1000	1		X	1 (0.454)	
Sodium azide		The state of the s	1*	4	P105	C	1000 (454)	
Sodium bichromate	10588019		1000	1	100	A .	10 (4.54)	
Sodium bifluoride	1333831	C. Communication of the Commun	5000	1	and the land	В	100 (45.4)	
Sodium bisulfite	7631905	TO THE PARTY OF TH	5000	1	- Common of	D	5000 (2270)	
Sodium chromate	7775113		1000	1	-	A	10 (4.54)	
Sodium cyanide		Sodium cyanide Na (CN)	10	1,4	P106	A	10 (4.54)	
Sodium cyanide Na (CN)	143339	Sodium cyanide	10	1,4	P106	A	10 (4.54)	
Sodium dodecylbenzenesulfonate		The part of the last of the la	1000	1	2	C	1000 (454)	
Sodium fluoride	7681494		5000	1	-	C	1000 (454)	
Sodium hydrosulfide	16721805		5000	1	1	D	5000 (2270)	
Sodium hydroxide	1310732	AND A PARTY NAMED IN CO.	1000	1	-	C	1000 (454)	
Sodium hypochlorite	7681529		100	1	12/10/19	В	100 (45.4)	
Sodium methylate	10022705	THE RESERVED TO SERVED SHOWING			-		100	
Sodium nitrite	124414	ALL IN THE RESERVE AND THE PARTY AND THE PAR	1000	1	10000	C	1000 (454)	
Sodium phosphate, dibasic	7632000		100	1	706.5	В	100 (45.4)	
priospriate, dibasic	7558794		5000	1	100000	D	5000 (2270)	
A Christian Company of the Company o	10039324		1313		E COURT OF	The state of the state of	10000 (11110)	
Sodium phosphate, tribasic	10140655		Tolors !			25		
prisopriato, tribasio	7601549 7758294		5000	1		D	5000 (2270)	
	7785844		100		133333			
- YESPITE THE REAL PROPERTY OF THE PERSON OF	10101890	The state of the s	Sec. 150.		THE REAL PROPERTY.			
THE PERSON NAMED IN SCHOOL	10124568					WEST .		
- Although	10361894		STATE OF THE PARTY OF		Mary Barry	The state of		
odium selenite	10102188		4000		THE STATE OF			
	7782823	The second secon	1000	1		В	100 (45-4)	
treptozotocin	18883664	D-Glucose, 2-deoxy-2-[[(methylnitrosoa-	1*		11000		The second	
		mino)-carbonyl]amino]- Glucopyranose, 2-deoxy-2-(3-methyl-3-ni-		4	U206	×	1 (0.454)	
		trosoureido)-	STORY.	100	Partie and	A STATE OF THE PARTY OF		
trontium chromate	7789062	The second secon	1000	1		A	2000	
trychnidin-10-one	57249	Strychnine, & salts	10	1,4	P108	A	10 (4.54)	
trychnidin-10-one, 2,3-dimethoxy-	357573	Brucine	1*	4	P018	A B	10 (4.54)	
trychnine, & salts	57249	Strychnidin-10-one	10	1,4	P108	A	100 (45.4)	
tyrene	100425		1000	1,4	1100	C	10 (4.54)	
ulfur monochloride	12771083		1000	1	1900	c	1000 (454)	
ulfur phosphide	1314803	Phosphorus pentasulfide	100	1,4	U189	В	1000 (454)	
olforda - 14	-	Phosphorus sulfide	100	5,77	0100	0	100 (45.4)	
ulfuric acid	7664939		1000	1	2000	c	1000 (4E4)	
ulfurio anial atab are	8014957			100			1000 (454)	
ulfuric acid, dithallium (1+) salt	7446186	Thallium (I) sulfate	1000	1,4	P115	В	100 (45 4)	
ulturic sold dimethyl set	10031591	1251 3W W S V I	The same of	1		Transfer of	100 (45.4)	
ulfuric acid, dimethyl ester	77781	Dimethyl sulfate	1*	4	U103	В	100 (45.4)	
4,5-T acid	93765	Acetic acid, (2,4,5-trichlorophenoxy)	100	1,4	U232	C	1000 (454)	
4.5-T aminoe	100000000	2,4,5-T			-		1000 (454)	
4,5-T amines	2008460	A STATE OF THE PARTY OF THE PAR	100	1		D	5000 (2270)	
	1319728	The state of the s	Ply I	COL TY	Library		0000 (22/0)	
A THE REST OF THE REST OF	3813147 6369966		St. Comment		The second			

CENT INTERNATIONAL VIEW	MELL		-	Statutory		FI	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
A E T actors	93798		100	1	- 518	C	1000 (454
2,4,5-T esters	1928478	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	,,,,				
	2545597		1000		TUE N		See May 1
	25168154	Committee Line Committee C	000			To the state of	A STATE OF THE PARTY OF
	61792072		100	DYD . I		C	1000 (454
2,4,5-T salts	13560991	A - N 14 (O 4 F Mahlamahanawa)	100	1,4	U232	C	1000 (454
2,4,5-T	93765	Acetic acid, (2,4,5-trichlorophenoxy) 2,4,5-T acid	100	1,7	UEUE	1	1000 (10)
rde	72548	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-	1	1,2,4	U060	X	1 (0.454
I CC	12010	chloro- DDD 4,4' DDD				1 183	
1,2,4,5-Tetrachlorobenzene	95943	Benzene, 1,2,4,5-tetrachioro-	1*	4	U207	D	5000 (2270
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746016		1*	2	11000	X	1 (0.454
1,1,1,2-Tetrachloroethane	630206	Ethane, 1,1,1,2-tetrachloro-	1*	4	U208 U209	B	100 (45.4
1,1,2,2-Tetrachloroethane	79345	Ethane, 1,1,2,2-tetrachloro-	1*	2,4	U210	B	100 (45.4
Tetrachloroethene	127184	Ethene, tetrachloro- Perchloroethylene	5 7 6	2,7	0210		100 (100)
		Tetrachloroethylene	all longs			10530 2	(30000000000000000000000000000000000000
Tetrachloroethylene	127184	Ethene, tetrachloro-	1*	2,4	U210	В	100 (45.4
		Perchloroethylene Tetrachloroethene	THE PARTY		10000		20020
2,3,4,6-Tetrachlorophenol	58902	Phenol, 2,3,4,6-tetrachloro-	1*	4	U212	A	10 (4.54
Tetraethyl lead	78002	Plumbane, tetraethyl-	100	1,4	P110	A	10 (4.54
Tetraethyl pyrophosphate		Diphosphoric acid, tetraethyl ester	100	1,4	P111	AB	100 (45.4
Tetraethyldithiopyrophosphate		Thiodiphosphoric acid, tetraethyl ester	1.	4 4	P109 U213	C	1000 (45.4
Tetrahydrofuran	109999	Furan, tetrahydro-	1.	4	P112	A	10 (4.54
Tetranitromethane		Methane, tetranitro- Hexaethyl tetraphosphoate	10	4	P062	В	100 (45.4
Tetraphosphoric acid, hexaethyl ester Thallic oxide	1314325	Thallium oxide Tl203	1*	4	P113	В	100 (45.4
Thallium 1		Thamati Oxido Neoo	1*	2		C	1000 (454
Thallium and compounds		the party of the standard with	1*	2	The same of		
Thallium (I) acetate		Acetic acid, thallium(1+) salt	1.	4	U214	В	100 (45.4
Thallium (I) carbonate	6533739	Carbonic acid, dithallium(1+) salt	1*	4	U215	B	100 (45.4
Thallium (I) chloride		Thallium chloride TICI	1.	4	U216	B	100 (45.4
Thallium chloride TICI		Thallium(I) chloride	1*	4 4	U216 U217	В	100 (45.4
Thallium (I) nitrate		Nitric acid, thallium (1+) salt	1.	4	P113	В	100 (45.4
Thallium oxide TI203		Thallic oxide Selenious acid, dithallium(1+) salt	10	4	P114	C	1000 (454
Thallium selenite	125 00 G 2 C 12 C 2	Sulfuric acid, dithallium(1+) salt	1000	1.4	P115	В	100 (45.4
manuff () surate	10031591		1 Page				
Thioacetamide	62555	Ethanethioamide	1*	4	U218	A	10 (4.5
Thiodiphosphoric acid, tetraethyl ester		Tetraethyldithiopyrophosphate	10	4	P109	В	100 (45.4
Thiofanox	39196184	2-Butanone, 3,3-dimethyl-1-(methylthio)-,	1.	4	P045	В	100 (45.
	C++F07	O[(methylamino)carbonyl) oxime	1*	4	P049	В	100 (45.4
Thioimidodicarbonic diamide [(H2N)C(S)]	541537	Dithiobiuret	100		1.045		710
2NH. Thiomethanol	74931	Methanethiol	100	1,4	U153	В	100 (45.4
THORIE HIGHOL.	14001	Methylmercaptan	1000		DOVE !	ALC: UNK	
Thioperoxydicarbonic diamide [(H2N)C(S)]	137268	Thiram	1.	4	U244	A	10 (4.5
2S2, tetramethyl	The state of the s		Table 1	DOT UT	-		400 445
Thiophenol	108985	Benzenethiol	1.	4	P014	В	100 (45.
Thiosemicarbazide	79196	Hydrazinecarbothioamide	1*	4	P116	B	100 (45.
Thiourea		4 College by National	1*	4 4	U219 P026	B	100 (45.
Thiourea, (2-chlorophenyl)		1-(o-Chlorophenyl)thiourea	10	4	P072	В	100 (45.
Thiourea, 1-naphthalenyl-		alpha-Naphthylthiourea Phenylthiourea	1*	4	P093	8	100 (45.
Thiourea, phenyl-	1000 CO	Thioperoxydicarbonic diamide	1*	4	U244	A	10 (4.5
ITH GIT	107200	[(H2N)C(S)] 2S2, tetramethyl-			100000000000000000000000000000000000000	A MARINE S	
Toluene	108883	Benzene, methyl-	1000	1,2,4		C	1000 (45
Toluenediamine		Benzenediamine, ar-methyl-	1"	4	U221	A	10 (4.5
	496720		-	172	RC P	The same	1 80 8
	823405	The state of the s	13-110	STEE SOLL	Mary Mary	A DE TOO	
T	25376458	Bonzono 1 2 diisasyanatamethyl-	1.	4	U223	В	100 (45.
Toluene diisocyanate	584849 91087	Benzene, 1,3-diisocyanatomethyl-	1				
	26471625	A STATE OF THE PARTY OF THE PAR	- NO	1000		Charles B.	
o-Toluidine		Benzenamine, 2-methyl-	1*	4		В	100 (45.
p-Toluidine	610000000000	Benzenamine, 4-methyl-	1*	4	U353	В	100 (45.
o-Toluidine hydrochloride		Benzenamine, 2-methyl-, hydrochloride	1*	4		В	100 (45.
Toxaphene	8001352	Camphene, octachloro-	1*	1,2,4,		X	1 (0.45
2,4,5-TP acid		Propionic acid, 2-(2,4,5-trichlorophenoxy)-	100	1,4	U233	В	100 (45.
	0000	Silvex (2,4,5-TP)	100	DIE 4 3	1000	В	100 (45.
2,4,5-TP esters		Amitrala	100	4	U011	A	10 (4.5
1H-1,2,4-Triazol-3-amine	22222		1000	1	2011	В	100 (45.
Trichlorfon	120821	THE RESIDENCE OF THE PARTY OF T	1*	2	10	В	100 (45

		Committee of the Commit		Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg	
1,1,1-Trichloroethane	71556	Ethane, 1,1,1-trichloro-	12	2,4	U226	С	1000 (45	
1,1,2-Trichloroethane		Methyl chloroform	Ja SIN					
Trichloroethene	79005	Ethane, 1,1,2-trichloro-	1.	2,4	U227	В	100 (45.	
	79016	Ethene, trichloro- Trichloroethylene	1000	1,2,4	U228	8	100 (45.	
Frichloroethylene	79016	Ethene, trichloro-	1000	1,2,4	U228	В	100 /45	
		Trichloroethene	1000	1,2,4	0220	В	100 (45.	
Frichloromethanesulfenyl chloride	594423	Methanesulfenyl chloride, trichloro-	1*	4	P118	В	100 (45.	
Trichloromonofluoromethane	75694	Methane, trichlorofluoro-	1*	4	U121	D	5000 (227	
richlorophenol	25167822 15950660		10	1	-	A	10 (4.5	
2,3,5-Trichlorophenol	933788				17.3	SHOW STREET		
2,3,6-Trichlorophenol	933755						The same of	
2,4,5-Trichlorophenol	95954	Phenol, 2,4,5-trichloro-	10°	1,4	U230	A	10 (4.5	
2,4,6-Trichlorophenol	88062	Phenol, 2,4,6-trichloro-	10*	1,2,4	U231	A	10 (4.5	
3,4,5-Trichlorophenol	609198							
2,4,6-Trichlorophenol	95954 88062	Phenol, 2,4,5-trichloro-	10*	1,4	U230	A	10 (4.5	
riethanolamine dodecylbenzenesulfonate	27323417	Phenol, 2,4,6-trichloro-	10.	1,2,4	U231	A	10 (4.5	
riethylamine	121448		1000 5000		PARTY IN	C	1000 (45	
rimethylamine	75503		1000		A STATE OF	D B	100 (45	
,3,5-Trinitrobenzene	99354	Benzene, 1,3,5-trinitro-	1"	4	U234	A	10 (4.5	
3,5-Trioxane, 2,4,6-trimethyl-	123637	Paraldehyde	1*	4	U182	C	1000 (45	
ris(2,3-dibromopropyi) phosphaterypan blue	126727	1-Propanol, 2,3-dibromo-, phosphate [(3:1)	1.	4	U235	A	10 (4.5	
, ypair bide	72571	2,7-Naphthalenedisulfonic acid, 3,3'-3,3'-di-	1.	4	U236	A	10 (4.5	
Children To an and the control of th		methyl-(1,1'-biphenyl)-4,4'-diyl)- bis(azo)]bis(5-amino-4-hydroxy)-	diction		1	The Benton	(HERENO)	
		tetrasodium salt	175 000		1 - P. CO	NOT THE REAL PROPERTY.	Design Printer	
nlisted Hazardous Wastes Characteristic	N.A.		1.	4	D002	В	100 (45	
of Corrosivity.			118		0002		100 (45	
nlisted Hazardous Wastes Characteristic of EP Toxicity.	N.A.		1*	4			End	
Arsenic D004			ALC: N			March 1	Balling	
Barium D005	N.A. N.A.		1.	4	D004	X	1 (0.45	
Cadmium D006	N.A.		1*	4	D005	C	1000 (45	
Chromium D007	N.A.		1.	4 4	D006 D007	A	10 (4.5	
Lead D008	N.A.		1*	4	D007	0	10 (4.5	
Mercury D009	N.A.		1.	4	D009	X	1 (0.45	
Selenium D010	N.A.	The name of the last of the la	1*	. 4	D010	A	10 (4.5	
Silver D011	N.A.	MANUAL PROPERTY OF THE PARTY OF	1"	4	D011	X	1 (0.45	
Lindane D013	N.A.		1	1,4	D012	X	1 (0.45	
Methoxychlor D014	N.A.		1	1.4	D013 D014	X	1 (0.45	
Toxaphene D015	N.A.		1	1,4	D014 D015	X	1 (0.45	
2,4-D D016	N.A.		100	1,4	D016	B	100 (45	
2,4,5-TP D017	N.A.		100	1,4	D017	В	100 (45	
nlisted Hazardous Wastes Characteristic of Ignitability.	N.A.		1.	4	D001	В	100 (45	
nlisted Hazardous Wastes Characteristic	N.A.					The second		
of Reactivity.	14.0.		1.	4	D003	В	100 (45.	
racil mustard	66751	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-	1.	4	U237	A	10 (4.5	
SERVICE CONTRACTOR OF THE PARTY	-	chloroethyl)amino]-	1204		0001	Contract to	10 (4.5	
ranyl acetate	541093		5000	1		8	100 (45	
ranyl nitrate	10102064	The second of th	5000	1		В	100 (45.	
rea, N-ethyl-N-nitroso-	36478769 759739	N. Nitroen N. othykurna	1	1 199				
rea, N-methyl-N-nitroso	684935	N-Nitroso-N-ethylurea N-Nitroso-N-methylurea	1.	4	U176	X	1 (0.45	
anadic acid, ammonium salt	7803556	Ammonium vanadate	10	4	U177 P119	X	1 (0.45	
anadium oxide V205	1314621	Vanadium pentoxide	1000	1,4	P120	C	1000 (45	
anadium pentoxide	1314621	Vanadium oxide V205	1000	1,4	P120	C	1000 (45	
nadyl sulfate	27774136		1000	10		C	1000 (45	
nyl acetate	75014	Ethene, chloro-	1"	2,3,4	U043	X	1 (0.45	
nyi acetate monomer	108054 108054	Vinyl acetate monomer Vinyl acetate	1000	1		D	5000 (227	
nylamine, N-methyl-N-nitroso-	4549400	N-Nitrosomethylvinylamine	1000	1	PORA	D	5000 (227	
nylidene chloride	75354	Ethene, 1,1-dichloro-	5000	1,2,4	P084 U078	A B	10 (4.5	
	1 100	1,1-Dichloroethylene	1000	1,2,4	3073	THE PARTY	100 (45.	
arfarin, & salts, when present at concentrations greater than 0.3%.	81812	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-	1"	4	P001	В	100 (45.	
and greater trial 0.3%.	Paul	oxo-1-phenyl-butyl)-, & salts, when	1000			-		
AND THE PARTY OF T	100	present at concentrations greater than 0.3%	1100	THE STATE	13	THE PERSON		
/lene (mixed)	1330207	Benzene, dimethyl	1000	1 2000	Linno			
m-Benzene, dimethyl	108383	m-Xylene	1000	1,4	U239	C	1000 (45	
	The second secon	The state of the s			and the second s	the second second second second		

				Statutory		Final RQ	
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
to the second of		Constant of the last	1000	1		C	1000 (454)
Xylenol. Yohimban-16-carboxylic acid,11,17-dirneth- oxy-18-E(3,4,5-trimethoxybenzoyl)oxy1-, methyl ester (3beta,16beta,17alpha,	1300716 50555	Reserpine	1*	4	U200	D	5000 (2270)
18beta, 20alpha)- Zinc 1	7440666		1*	2		C	1000 (454)
ZINC AND COMPOUNDS	N.A.		1*	2		0	4000 (454)
Zinc acetate	557346		1000	1		C	1000 (454) 1000 (454)
Zinc ammonium chloride	52628258 14639975 14639986		5000	1			
Zinc borate	1332076		1000	1	THE PARTY NAMED IN	C	1000 (454)
Zinc bromide	7699458		5000	1	E I I	C	1000 (454)
Zinc carbonate	3486359	Harry Street, or Assembly or Street,	1000	1		C	1000 (454)
Zinc chloride	7646857	7 7 7 10 10	5000	1,4	P121	A	10 (4.54)
Zinc cyanide	557211	Zinc cyanide Zn(CN)2	10	1,4	P121	A	10 (4.54)
Zinc cyanide Zn(CN)2	557211 7783495	Zinc cyanide	1000	1	10000	C	1000 (454)
Zinc flouride	557415		1000	1	1200	C	1000 (454)
	7779864	Carlotte Carlotte Carlotte	1000	1	-	C	1000 (454)
Zinc hydrosulfite	7779886		5000	1	1 2 3 1 E	C	1000 (454)
Zinc phenosulfonate	127822		5000	1	- The same of	D	5000 (2270)
Zinc phosphide	1314847	Zinc phosphide Zn3P2, when present at concentrations greater than 10%	1000	1,4	P122	В	100 (45.4)
Zinc phosphide Zn3P2, when present at concentrations greater than 10%.	1314847	Zinc phosphide	1000	1,4	P122	В	100 (45.4)
Zinc silicofluoride	16871719		5000	- 1	CONTRACTOR OF THE PARTY OF THE	D	5000 (2270 1000 (454
Zinc sulfate	7733020		1000		The state of	D	5000 (2270
Zirconium nitrate	13746899		5000		THE PARTY	C	1000 (454
Zirconium potassium fluoride	16923958	The state of the state of the state of	5000	1	1000	D	5000 (2270
Zirconium sulfate	14644612	CHARLES AND ADDRESS OF THE PARTY OF THE	5000	4		D	5000 (2270
Zirconium tetrachloride	10026116	THE RESERVE OF SAME	1*	4	F001	A	10 (4.54
The following spent halogenated solvents used in degreasing; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent							THE SALE
mixtures. (a) Tetrachloroethylene	127184		1*	2.4	U210	В	100 (45.4
(b) Trichloroethylene	79016		1000	1,2,4	U228	В	100 (45.4
(c) Methylene chloride	75092		1*	2,4	U080	C	1000 (454
(d) 1,1,1-Trichloroethane	71556		1*	2,4	U226	C	1000 (454
(e) Carbon tetrachloride	56235	Land to the second state of the second	5000	1,2,4	U211	A	10 (4.54 5000 (2270
(f) Chlorinated fluorocarbons	N.A.	Coverage College Colle	1				0417
F002			. 1*	4	F002	A	10 (4.54
The following spent halogenated solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.			STREET STREET		11010		100 (45.4
(a) Tetrachloroethylene	127184		1:	2,4	0.000 CM	B	100 (45.4
(b) Methylene chloride	75092		1000	2,4	000222V	CB	100 (45.4
(c) Trichloroethylene	79016		1000	1,2,4	HIND COLUMN	C	1000 (454
(d) 1,1,1-Trichloroethane	71556		100	1,2,4	The state of the s	В	100 (45.4
(e) Chlorobenzene	108907		100	1,44,17	0001	D	5000 (2270
(f) 1,1,2-Trichloro-1,2,2-trifluoroethane	76131	The second secon	100	1,2,4	U070	В	100 (45.4
(g) o-Dischlorobenzene	95501 75694	Class of the second second second	1.00	4	100000000000000000000000000000000000000	D	5000 (227)
(i) 1,1,2-Thrichloroethane	79005		1.	2,4	17000000	В	100 (45.4
	10000		1			В	100 (45.4

	1		10	Statutory		Fir	nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents							
vents, and a total of ten percent or more (by volume) of one or:							-
(a) Xylene (mixed)	1330207		1000	1,4	U239	C	1000 (454
(b) Acetone	67641		1*	4	U002	D	5000 (2270
(c) Ethyl acetate	141786		1*	4	U112	D	5000 (2270
(d) Ethylbenzene	100414		1000	1,2	200	C	1000 (454
(e) Ethyl ether	60297		1*	4	U117	В	100 (45.4
(f) Methyl isobutyl ketone	108101		1*	4	U161	D	5000 (2270
(g) n-Butyl alcohol	71363		1*	4	U031	D	5000 (2270
(h) Cyclohexanone	108941		1.	4	U057	D	5000 (2270
(i) Methanol	67561		1.	4	U154	D	
F004	4		10				5000 (2270
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents:				4	F004	C	1000 (454
(a) Cresols/Cresylic acid	1319773		1000	1,4	U052	C	1000 (454
(b) Nitrobenzene	98953		1000	1,2,4	U169	C	11/10/20/20/10/10/20/20
F005			1*			800	1000 (454
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents: (a) Toluene				4	F005	В	100 (45.4
(b) Methyl ethyl ketone	108883		1000	1,2,4	U220	C	1000 (454
(c) Carbon digulfide	78933		1*	4	U159	D	5000 (2270
c) Carbon disulfide	75150		5000	- 1,4	P022	В	100 (45.4
(d) Isobutanol	78831		1.	4	U140	D	5000 (2270
(e) Pyridine	110861		1.	4	U196	C	1000 (454
F006			1*	4	F006	Δ	
Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum, (2) tin plating on carbon steel, (3) zinc plating (segregated basis) on carbon steel, (4) aluminum or zinc-aluminum plating on carbon steel, (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel, and (6) chemical etching and milling of aluminum.			4.			A	10 (4.54)
Spent cyanide plating bath solutions from electroplating operations.				4	F007	^	10 (4.54)
F008			1.	4	E000		
Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.					F008	^	10 (4.54)
from electroplating operations where cyanides are used in the process.			1*	4	F009	A	10 (4.54)
Ouenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.			1*	4	F010	A	10 (4.54)
011			. 1*	4	E011	A Second	-
pent cyanide solutions from salt bath pot cleaning from metal heat treating oper- ations (except for precious metals heat treating spent cyanide solutions from salt				4	F011	A	10 (4.54)
bath pot cleaning).	THE RESERVE TO SERVE					E 10 1000	
012	-		The second of		200		

The second secon				Statuto			nal RQ
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.					South State of the		10 (4.54
Vastewater treatment sludges from the chemical conversion coating of alumi-			1*		F019	NO DESCRIPTION	10 (4.54
num. 020			1*		F020	x	1 (0.454
vastes (except wastewater and spent carbon from hydrogen chloride purifica- tion) from the production or manufactur- ing use (as a reactant, chemical interme-					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MATERIAL PROPERTY OF THE PROPE	THE STATE OF
diate, or component in a formulating process) of tri-or-tetrachlorophenol, or of intermediates used to produce their pes-							
ticide derivatives. (This listing does not include wastes from the production of hexachlorophene from highly purified 2.4.5-trichlorophenol.)			100				
021			1*		4 F021	X	1 (0.45
carbon from hydrogen chloride purifica- tion) from the production or manufactur- ing use (as a reactant, chemical interme-					No. in Line	Service	
diate, or component in a formulating process) of pentachlorophenol, or of in- termediates used to produce its deriva- tives.				TO SECOND	1	100	
022			1*		4 F022	X	1 (0.45
/astes (except wastewater and spent carbon from hydrogen chloride purifica- tion) from the manufacturing use (as a						Carried Co.	
reactant, chemical intermediate, or com- ponent in a formulating process) of tetra- penta-, or hexachlorobenzenes under afkaline conditions.							
023			1*		4 F023	X	1 (0.4
Vastes (except wastewater and spent carbon from hydrogen chloride purifica- tion) from the production of materials on equipment previously used for the pro- duction or manufacturing use (as a reac-					Total State		
tant, chemical intermediate, or compo- nent in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used			57.10		12 W 24	Par greate of	
only for the production or use of hexa- chlorophene from highly purified 2,4,5-tri- chlorophenol.)					N NEW TOWN		1 (0.45
F024 Wastes, including but not limited to distilla- tion residues, heavy ends, tars, and reac- tor cleanout wastes, from the production			1*		4 F024	×	10.4
of chlorinated aliphatic hydrocarbons, having carbon content from one to five, utilizing free radical catalyzed processes. (This listing does not include light ends,							
spent filters and filter aids, spent dessicants(sic), wastewater, wastewater treatment sludges, spent catalysts, and wastes listed in Section 261.32.)						and the latest	0.00
026			1*	415-7	4 F026	×	1 (0.4
Vastes (except wastewater and spent carbon from hydrogen chloride purifica- tion) from the production of materials on							The same of the sa
equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hex-					-	Mark and the second	o modelije se
achlorobenzene under alkaline condi- tions.			1*		4 F027	×	1 (0.4

Hazardous Substance	010011		Statutory			Final RQ		
riazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)	
Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepuritied 2,4,5-tri-chlorophenol as the sole component.)								
Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.			1*	4	F028	×	1 (0.454	
Bottom sediment sludge from the treat- ment of wastewaters from wood preserv- ing processes that use creosote and/or pentachlorophenol.			1*	4	K001	×	1 (0.454	
Wastewater treatment sludge from the pro- duction of chrome yellow and orange pigments.			1.	4	K002		1	
Wastewater treatment sludge from the pro- duction of molybdate orange pigments. K004			1*	4	K003		+	
duction of zinc yellow pigments.			1*	4		A	10 (4.54	
duction of chrome green pigments.			1*	4	K005		A	
duction of chrome oxide green pigments (anhydrous and hydrated).			1*	4	K006	A	10 (4.54	
duction of iron blue pigments.			1.	4	K007	A	10 (4.54)	
chrome oxide green pigments.			1'	4	K008	A	10 (4.54)	
acetaldehyde from ethylene.			1*	4	K009	A	10 (4.54)	
acetaldehyde from ethylene.			1.		K010	A .	10 (4.54)	
Bottom stream from the wastewater strip- per in the production of acrylonitrile.			1.		25020	A	10 (4.54)	
in the production of acrylonitrile.	56 0 14		1*		TE E	D	10 (4.54)	
column in the production of acrylonitrile.			1*			A	- Amily	
chloride.			1*			x	10 (4.54)	
production of carbon tetrachloride.			1.		n de mainte	A	10 (4.54)	
cation column in the production of epi- chlorohydrin.					REV	Later Street,		
eavy ends from the fractionation column in ethyl chloride production.			1*	4	K018	×	1 (0 454)	

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Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.			1*	4	K020	×	1 (0.454)
Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production. K021			1*	4	K021	A A	10 (4.54)
Aqueous spent antimony catalyst waste from fluoromethanes production.			1*	4	K022	x	1 (0.454)
Distillation bottom tars from the production of phenol/acetone from cumene.				4	K023	D	5000 (2270)
Distillation light ends from the production of phthalic anhydride from naphthalene.	301		1.	4	K024	D	5000 (2270)
Distillation bottoms from the production of phthalic anhydride from naphthalene. K025			1*	4	K025	A	10 (4.54)
Distillation bottoms from the production of nitrobenzene by the nitration of benzene. K026			1.	4	K026	c	1000 (454)
Stripping still tails from the production of methyl ethyl pyridines. K027			1*	4	K027	A	10 (4.54)
Centrifuge and distillation residues from tol- uene diisocyanate production. K028			1*	4	K028	×	1 (0.454)
Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichlor-oethane. K029			1.	4	K029	×	1 (0.454)
Waste from the product steam stripper in the production of 1,1,1-trichloroethane.			1*	4	козо	×	1 (0.454)
Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene. K031			1*	4	K031	×	1 (0.454)
By-product salts generated in the produc- tion of MSMA and cacodylic acid. K032			1.	4	K032	A	10 (4.54
Wastewater treatment sludge from the pro- duction of chlordane. K033			1.	4	K033	A	10 (4.54
Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.			1"		K034	A	10 (4.54
Filter solids from the filtration of hexachlor- ocyclopentadiene in the production of chlordane.					Tid.		1 (0.454
Wastewater treatment sludges generated in the production of creosote.			1			×	1 (0.454
K036. Still bottoms from toluene reclamation distillation in the production of disulfcton.			1		1 K037	×	1 (0.45-
Wastewater treatment sludges from the production of disulfoton. K038			1		4 K038	A	10 (4.5
Wastewater from the washing and stripping of phorate production.			1		4 K039	A	10 (4.5

Harrandana C. tod	CASEN Pondature		Statutory		Final RQ		
Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Filter cake from the filtration of diethyl- phosphorodithicic acid in the production of phorate.							
wastewater treatment sludge from the pro- duction of phorate.	254			4	K040	A	10 (4.54
Wastewater treatment sludge from the production of toxaphene.			1	4	K041	X	1 (0.454)
Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.			1*	4	K042	A	10 (4.54)
2.6-Dichlorophenol waste from the produc- tion of 2,4-D.			. 1*	4	K043	A	10 (4.54)
Wastewater treatment sludges from the manufacturing and processing of explosives.			1*	4	K044	A	10 (4.54)
Spent carbon from the treatment of wastewater containing explosives.			1*	4	K045	A	10 (4.54)
Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.				4	K046	В	100 (45.4)
K047				4	K047	A	10 (4.54)
Dissolved air flotation (DAF) float from the petroleum refining industry.			1*		K048		#
Slop oil emulsion solids from the petroleum refining industry.		*	1.		K049	man makes	#
ricat exchanger bundle cleaning sludge from the petroleum refining industry.			1*		K050	^	10 (4.54)
API separator sludge from the petroleum refining industry.			1.		K051	like to the	#
ank bottoms (leaded) from the petroleum refining industry.					K052	^	10 (4.54)
emmonia still lime sludge from coking operations.			1.		K060	×	1 (0.454)
mission control dust/sludge from the pri- mary production of steel in electric fur- naces.			1*	4	K061	ACTION PROPERTY.	#
pent pickle liquor generated by steel fin- ishing operations of facilities within the iron and steel industry (SiC Codes 331 and 332).			1*	4	K062	and the same	#
cid plant blowdown slurry/sludge resulting from thickening of blowdown slurry from primary copper production.			1.	4 1	K064	unt source	##
occupants of the second of the			1*	4 1	< 065		##

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Hazardous Substance	CASRN	Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)
Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.			1*	4	K069		
Emission control dust/sludge from second- ary lead smelting.			1922				
3rine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not			1*	4	K071	×	1 (0.454
used. (073			1*	4	K073	A	10 (4.54
Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.			1.	4	K083	В	100 (45.4
083 Distillation bottoms from aniline extraction.			. 1*	4	K084	x	1 (0.454
Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.					3 500	11.67	
Costillation or fractionation column bottoms			1*	4	K085	A	10 (4.5
from the production of chlorobenzenes.			1*	4	K086		
colvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.			1*	4	K087	8	100 (45
COB7				4	K088		WEST STATE
Spent potliners from primary aluminum reduction.			1.	4	K090		
mission control dust or sludge from fer- rochromiumsilicon production.				4	K091		The state of
mission control dust or sludge from fer- rochromium production.			1*	4		D	5000 (22)
Op3 Distillation light ends from the production of phthalic anhydride from ortho-xylene.			1.	4		D	5000 (22)
Distillation bottoms from the production of phthalic anhydride from ortho-xylene.				4		В	100 (45
Costillation bottoms from the production of 1,1,1-trichloroethane.			1.	4		В	100 (45
leavy ends from the heavy ends column from the production of 1,1,1-trichloroeth-					1,000		
ane, (097			1*	4	K097	X	1 (0.4
dane chlorinator in the production of chlordane.			1*	4	K098	x	1 (0.4
Untreated process wastewater from the production of toxaphene.			1*	4	K099	A	10 (4.

Hazardous Substance	CACOLL			Statutory	1	Final RQ	
Trezardous Substance	CASRN Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)	
Untreated wastewater from the production of 2,4-D. K100				Y 1200	phrosola io other		(Marin
Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.			. 1*	4	K100		Salay A
K101 Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. K102			1*	4	K101	×	1 (0.454
Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. K103			1	4	K102	X	1 (0.454
Process residues from aniline extraction from the production of aniline.			1.	4	K103	В	100 (45.4
K104	No. of the last		1.	4	K104	A	10 (4.54
K105	TO AUTOMA A			4	K105	A	10 (4.54
Wastewater treatment sludge from the mercury cell process in chlorine production.	Datale and the		mad 1.	4	K106	×	1 (0.454
dinitrotolusne via nitration of toluene.	1319/K VI	TROUBLES DO FINOS - CONT	1.	4	K111	A	10 (4.54
Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.	HIAS I		2 1	4	K112	A	10 (4.54
condensed liquid light ends from the purifi- cation of toluenediamine in the produc- tion of toluenediamine via hydrogenation of dinitrotoluene.			1.	4	K113	^	10 (4.54)
icinals from the purification of toluenedia- mine in the production of toluenediamine via hydrogenation of dinitrotoluene.			1*	4	K114	A	10 (4.54)
eavy ends from the purification of toluen- ediamine in the production of toluenedia- mine via hydrogenation of dinitrotoluene.		Antion in the second	1*	4	K115	A	10 (4.54)
rganic condensate from the solvent re- covery column in the production of tolu- ene diisocyanate via phosgenation of to- luenediamine.			1*	4	K116	A	10 (4.54)
astewater from the reaction vent gas scrubber in the production of ethylene bromide via bromination of ethene.			1*	4	K117	×	1 (0.454)
pent absorbent solids from purification of ethylene dibromide in the production of ethylene dibromide.			1"	4	K118	x	1 (0.454)
23			1.	4 1	(123	A	10 (4.54)

[Note: All Comments/Notes Are Located at the End of This Table]

	Gold Service			Statutory		Fir	nal RQ
Hazardous Substance	CASRN Regulatory Synonyms	RQ	Code †	RCRA Waste Number	Category	Pounds (Kg)	
Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salts. K124			1*	4	K124	A	10 (4.54
Reactor vent scrubber water from the pro- duction of ethylenebisdithiocarbamic acid and its salts.			1,	4	K125	A	10 (4.54
K125 Filtration, evaporation, and centrifugation solids from the production of ethylene-bisdithiocarbamic acid and its salts. K126			1*	4	K126	A	10 (4.54
Baghouse dust and floor sweepings in mili- ing and packaging operations from the production or formulation of ethylenebis- dithiocarbamic acid and its salts.					Mail Lab	LOS DO ARIO DE PORTO	4 10 454
Still bottoms from the purification of ethyl- ene dibromide in the production of ethyl- ene dibromide via bromination of ethene.			1	1	K136	X	1 (0.454

- † Indicates the statutory source as defined by 1, 2, 3, or 4 below.

 1 No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 100 micrometers (0.004 inches).

 1+ The RQ for asbestos is limited to friable forms only.

 1- Indicates that the statutory source for designation of this hazardous substance under CERCLA is CWA Section 311(b)(4).

 2- Indicates that the statutory source for designation of this hazardous substance under CERCLA is CWA Section 307(a).

 3- Indicates that the statutory source for designation of this hazardous substance under CERCLA is CAA Section 112.

 4- Indicates that the statutory source for designation of this hazardous substance under CERCLA is RCRA Section 3001.

 #*- Indicates that the 1-pound RQ is a CERCLA statutory RQ.

 # Indicates that the RQ is subject to change when the assessment of potential carcinogenicity is completed.

 ## The Agency may adjust the statutory RQ for this hazardous substance in a future rulemaking; until then the statutory RQ applies.

 5- The adjusted RQs for radionuclides may be found in Appendix B to this table.

§—The adjusted RQs for radionuclides may be found in Appendix B to this table.
*—indicates that no RQ is being assigned to the generic or broad class.

NUMBER LIST OF CERCLA HAZARDOUS

NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES_Continued

APPENDIX A—SEQUENTIAL CAS REGISTRY APPENDIX A—SEQUENTIAL CAS REGISTRY APPENDIX A—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES-Continued

CASRN	Hazardous substance	CASRN	Hazardous substance	CASRN	Hazardous substance
50000 50077	Formaldehyde. Azirino[2',3':3,4]pyrrolo[1,2-a]indole-	52686	Ethyl carbamate (urethane). Trichlorfon.	56495	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl
A Part	4,7-dione,6-amino-8- [[(aminocarbonyl)oxy]methyl]- 1,1a,2,8,8a, 8b-hexahydro-8a-meth-	52857	Famphur. Phosphorothioic acid, O,[4-[(dimethylamino) sulfonyl]phenyl]O,O-dimethyl	56531	3-Methylcholanthrene. Diethylstilbestrol. Phenol, 4,4'-(1,2-diethyl-1,2-
	oxy-5-methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]- Mitomycin C.	53703	ester. Dibenz[a,h]anthracene. Dibenzo[a,h]anthracene.	56553	ethenediyl)bis-, (E). Benz[a]anthracene. Benzo[a]anthracene.
50180	Cyclophosphamide. 2H-1,3,2-Oxazaphosphorin-2-amine,	53963	1,2:5,6-Dibenzanthracene. Acetamide, N-9H-fluoren-2-yl	56724	1,2-Benzanthracene. Coumaphos.
	N,N-bis(2-chloroethyl)tetrahydro-, 2- oxide.	54115	2-Acetylaminofluorene. Nicotine, & salts.	57125	Cyanides (soluble salts and complexes) not otherwise specified.
50293	Benzene, 1,1'-(2,2,2- trichloroethylidene)bis[4-chloro	The state of	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)	57147	Hydrazine, 1,1-dimethyl 1,1-Dimethylhydrazine.
	DDT. 4,4'DDT.	55185	Ethanamine, N-ethyl-N-nitroso N-Nitrosodiethylamine.	57249	Strychnidin-10-one. Strychnine, & salts. Chlordane.
50328	Benzo[a]pyrene. 3,4-Benzopyrene.	55630	Nitroglycerine. 1,2,3-Propanetriol, trinitrate	57749	Chlordane, alpha & gamma isomers Chlordane, technical.
50555	Reserpine. Yohimban-16-carboxylic acid,11,17-dimethoxy-18-[(3 ,4,5-	55914	Diisopropylfluorophosphate. Phosphorofluoridic acid, bis(1-methylethyl) ester.	F7070	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8 octachloro- 2,3,3a,4,7,7a-hexahydro-1,2-Benzanthracene, 7,12-dimethyl-
	trimethoxybenzoyl)oxyl-, methyl ester (3beta, 16beta, 17alpha, 18beta, 20alpha)	56042	Methylthiouracil. 4(1H)-Pyrimidinone, 2,3-dihydro-6-	57976 58899	7,12-Dimethylbenz[a]anthracene. Cyclohexane, 1,2,3,4,5,6-hexachloro-
51285	Phenol, 2,4-dinitro 2,4-Dinitrophenol.	56235	methyl-2-thioxo Carbon tetrachloride.	Takif a sin	(1alpha,2alpha,3beta,4alpha,5alpha,6beta)
51434	Epinephrine. 1,2-Benzenediol,4-[1-hydroxy-2-	56382	Methane, tetrachloro Parathion.		gamma - BHC. Hexachlorocyclohexane (gamm
51796	(methylamino) ethyl]-, Carbamic acid, ethyl ester.		Phosphorothioic acid, O,O-diethyl O-(4- nitrophenyl) ester.		isomer). Lindane.

APPENDIX A-SEQUENTIAL CAS REGISTRY | APPENDIX A-SEQUENTIAL CAS REGISTRY | APPENDIX A-SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
5890	
5950	2,3.4.6-Tetrachlorophenol. p-Chloro-m-cresol.
	Phenol, 4-chloro-3-methyl
	4-Chloro-m-cresol.
6000	4 Ethylenediamine-tetraacetic acid (EDTA).
6011	
	lazo-).
6029	p-Dimethylaminoazobenzene.
0029	7 Ethane, 1,1'-oxybis Ethyl ether.
6034	
0054	Methyl hydrazine.
6051	
	Phosphorodithioic acid, O,O-dimethyl S-[2(methylamino)-2-oxoethyl]
	ester.
60571	
	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-
	bloxirene, 3,4,5,6,9,9-hexachloro- 1a,2, 2a,3,6,6a,7,7a-octahydro-
	(1aalpha,2beta,2aalpha,3beta,6beta,
61825	6aalpha,7bata, 7aalpha)-
01020	1H-1,2,4-Triazol-3-amine.
62384	Mercury, (acetato-O)phenyl-
62442	Phenylmercury acetate
02442	Acetamide, N-(4-ethoxyphenyl) Phenacetin.
62500	Ethyl methanesulfonate
	Methanesulfonic acid, ethyl ester.
62533	Aniline. Benzenamine.
62555	Ethanethioamide.
12020000	Thioacetamide.
62566 62737	Thiourea.
62748	Dichlorvos. Acetic acid, fluoro-, sodium salt.
	Fluoroacetic acid, sodium salt
62759	Methanamine, N-methyl-N-nitroso-
63252	N-Nitrosodimethylamine. Carbaryl.
64186	Formic acid.
64197 65850	Acetic acid.
66751	Benzoic acid. Uracil mustard.
	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-
P7F04	chloroethyl) amino]
67561	Methanol. Methyl alcohol.
67641	Acetone.
67000	2-Propanone.
67663	Chloroform. Methane, trichloro
67721	Ethane, hexachloro-
70000	Hexachloroethane.
70257	Guanidine, N-methyl-N'-nitro-N-nitroso MNNG.
70304	Hexachlorophene.
1500	Phenol, 2,2'-methylenebis[3,4.6-tri-
71363	chioro
71003	n-Butyl alcohol. 1-Butanol.
71432	Benzene.
71556	Ethane, 1,1,1-trichloro
Marie Land	Methyl chloroform. 1,1,1-Trichloroethane.
72208	Endrin.
1000	Endrin, & metabolites.
183	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-
	1a,2,2a,3,6,6a,7,7a-octa-hydro-
9,65	(1aalpha,2beta,2abeta,3alpha,6alpha
200	6abeta,7beta,7aalpha)
72435	Benzene, 1,1'-(2,2,2-

NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substa	ance
	Mathematica	10000
7254	Methoxychlor. B Benzene,	4.41.10.1
1,775	dichloroethylidene)bis[4-	1,1'-(2,2
	DDD.	cinoro.
	TDE.	
7055	4,4' DDD.	
7255		
7257	4,4' DDE. Trypan blue.	
1201	2,7-Naphthalenedisulfonic	and no
	[(3,3'-dimethyl-(l,1'-biphe	acid, 3,3
	diyl)-bis(azo)]bis(5-amino	-4-hvdroxy)
Tall St	tetrasodium salt.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
74839		
74873	Methyl bromide.	
14013	Methane, chloro Methyl chloride.	
74884		
NAME OF STREET	Methyl iodide.	
74895	Monomethylamine.	
74908	Hydrocyanic acid.	
-	Hydrogen cyanide.	
74931	Methanethiol.	
	Methylmercaptan. Thiomethanol.	
74953	Methane, dibromo-,	
, 1000	Methylene bromide.	
75003	Chloroethane.	
75014	Ethene, chloro	
	Vinyl chloride.	
75047	Monoethylamine.	
75058	Acetonitrile.	
75070	Acetaidehyde.	
75092	Ethanal. Methane, dichloro	
75032	Methylene chloride.	
75150	Carbon disulfide.	
75207	Calcium carbide.	
75218	Ethylene oxide.	
-	Oxirane.	
75252	Bromoform.	
75274	Methane, tribromo	
75343	Dichlorobromomethane. Ethane, 1,1-dichloro	
	Ethylidene dichloride.	
	1,1-Dichloroethane.	
75354	Ethene, 1,1-dichloro	
	Vinylidene chloride.	
75365	1,1-Dichloroethylene.	
75445	Acetyl chloride.	
25445	Carbonic dichloride. Phosgene.	
75503	Trimethylamine.	
75558	Aziridine, 2-methyl	
2000	1,2-Propylenimine.	
75569	Propylene oxide.	
75605	Arsinic acid, dimethyl	
75649	Cacodylic acid. tert-Butylamine.	
75694	Methane, trichlorofluoro	
	Trichloromonofluoromethane.	
75718	Dichlorodifluoromethane.	
50000	Methane, dichlorodifluoro	
75865	Acetone cyanohydrin.	
	Propanenitrile, 2-hydroxy-2-mi	ethyl
75876	2-Methyllactonitrile.	
,0070	Acetaldehyde, trichloro Chloral.	
75990	2,2-Dichloropropionic acid.	
76017	Ethane, pentachloro	
	Pentachloroethane.	PULTON C
76448	Heptachlor.	311
1	4.7-Methano-1H-indene, 1,4	5,6,7,8,8-
77474	heptachloro-3a,4,7,7a-tetrah Hexachlorocyclopentadiene.	ydro
77474		

NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
7778	1 Dimethyl sulfate.
	Sulfuric acid, dimethyl ester.
7800	2 Plumbane, tetraethyl Tetraethyl lead.
7859	1 Isophorone.
7879	See Province
7881	
7883	1 Isobutyl alcohol. 1-Propanol, 2-methyl
7887	5 Propane, 1,2-dichloro
	Propylene dichloride.
78886	1.2-Dichloropropane. 2,3-Dichloropropene.
78933	The state of the s
	2-Butanone.
78999	
79005	
79016	1.1,2-Trichloroethane. Ethene, trichloro-,
	Trichlorgethene.
	Trichloroethylene
79061	Acrylamide.
79094	2-Propenamide.
79094	Topisine dold.
,0,0,	2-Propenoic acid.
79196	Hydrazinecarbothioamide.
wasan	Thiosemicarbazide.
79221	The state of the s
	Methyl chlorocarbonate. Methyl chloroformate.
79312	iso-Butyric acid.
79345	Ethane, 1,1,2,2-tetrachloro-
70447	1,1,2,2-Tetrachloroethane.
79447	Carbamic chloride, dirnethyl-, Dimethylcarbamoyl chloride.
79469	Propane, 2-nitro
	2-Nitropropane.
80159	alpha,alpha-
er to Gra	Dimethylbenzylhydroperoxide. Hydroperoxide, 1-methyl-1-phenylethyl
80626	Methyl methacrylate.
	2-Propenoic acid, 2-methyl-, methyl
81072	ester.
01072	Saccharin and salts. 1,2-Benzisothiazol-3(2H)-one, 1,1-diox-
	idə.
81812	Warfarin, & salts, when present at con-
	centrations greater than 0.3%. 2H-1-Benzopyran-2-one, 4-hydroxy-3-
	(3-oxo-1-phenyl -butyl)- & salts
	when present at concentrations
82688	greater than 0.3%.
02008	Benzene, pentachloronitro Pentachloronitrobenzene (PCNB).
83329	Acenaphthene.
84662	Diethyl phthalate.
L DENE	1,2-Benzenedicarboxylic acid, diethyl ester.
84742	Di-n-butyl phthalate.
	Dibutyl phthalate.
	n-Butyl phthalate.
- 10	1,2-Benzenedicarboxylic acid, dibutyl ester.
85007	Diquat.
85018	Phenanthrene.
85449	Phthalic anhydride. 1,3-isobenzofurandione.
85687	Butyl benzyl phthalate,
86306	N-Nitrosodiphenylamine.
86500	Guthion.
86737 86884	Fluorene.
00004	alpha-Naphthylthiourea. Thiourea, 1-naphthalenyl-
87650	Phenol, 2.6-dichloro-
97600	2,6-Dichlorophenol.
87683	Hexachlorobutadiene.

NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN Hazardous substance 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-. 87865 Pentachlorophenol. Phenol, pentachloro-Phenol, 2,4,6-trichloro-88062 2,4,6-Trichlorophenol. 88722 o-Nitrotoluene. 88755 o-Nitrophenol. 2-Nitrophenol. 88857 Dinoseb. Phenol, 2-(1-methylpropyl)-4,6-dinitro. Benzene, 1,3-diisocyanatomethyl-. 91087 Toluene diisocyanate. 91203 Naphthalene. Quinoline. 91225 91587 beta-Chloronaphthalene. Naphthalene, 2-chloro-. 2-Chloronaphthalene. 91598 beta-Naphthylamine. 2-Naphthalenamine. 91805 Methapyrilene. 1,2-Ethanediamine, N,N-dimethyl-N'-2pyridinyl-N'- (2-thienylmethyl)-. [1,1'-Biphenyl]-91941 4,4'diamine,3,3'dichloro-3,3'-Dichlorobenzidine. (1,1'-Biphenyl)-4,4'diamine. 92875 Benzidine. Propionic acid, 2-(2,4,5-trichlorophen-93721 oxy)-Silvex (2,4,5-TP). 2,4,5-TP acid. Acetic acid, (2,4,5-trichlorophenoxy). 93765 2,4,5-T. 2,4,5-T acid. 93798 2,4,5-T esters. 94111 2,4-D Ester. Dihydrosafrole. 94586 1,3-Benzodioxole, 5-propyl-. 94597 Safrole 1,3-Benzodioxole, 5-(2-propenyl)-. 94757 Acetic acid (2,4-dichlorophenoxy)-. 2,4-D Acid. 2,4-D, salts and esters. 94791 2,4-D Ester. 94804 2.4-D Ester. o-Benzene, dimethyl. 95476 o-Xylene. 95487 o-Cresol. o-Cresylic acid. 95501 Benzene, 1,2-dichloro-. o-Dichlorobenzene. 1,2-Dichlorobenzene. Benzenamine, 2-methyl-. 95534 o-Toluidine. o-Chlorophenol. 95578 Phenol, 2-chloro-. 2-Chlorophenol. Benzenediamine, ar-methyl-. 95807 Toluenediamine Benzene, 1,2,4,5-tetrachloro-. 1,2,4,5-Tetrachlorobenzene. 95943 Phenol, 2,4,5-trichloro-. 95954 2,4,5-Trichlorophenol. 96128 Propane, 1,2-dibromo-3-chloro-1,2-Dibromo-3-chloropropane. 96184 1,2,3-Trichloropropane. 96457 Ethylenethiourea. 2-Imidazolidinethione. Ethyl methacrylate. 97632 2-Propenoic acid, 2-methyl-, ethyl ester Furtural 98011 2-Furancarboxaldehyde. Benzene, (trichloromethyl)-. 98077 Benzotrichloride. Benzenesulfonic acid chloride. 98099

Benzenesulfonyl chloride.

NUMBER LIST OF CERCLA HAZARDOUS

C	ASRN	Hazardous substance
-		
	98828	Benzene, 1-methylethyl
	00000	Cumene.
	98862	Acetophenone. Ethanone, 1-phenyl
	98873	Benzal chloride.
		Benzene, dichloromethyl
	98884	Benzoyl chloride. Benzene, nitro
	98953	Nitrobenzene.
	99081	m-Nitrotoluene.
	99354	Benzene, 1,3,5-trinitro
	00550	1,3,5-Trinitrobenzene. Benzenamine, 2-methyl-5-nitro
	99558	5-Nitro-o-toluidine.
	99650	m-Dinitrobenzene.
	99990	p-Nitrotoluene.
	100016	Benzenamine, 4-nitro
	100027	p-Nitroaniline. p-Nitrophenol.
	100027	Phenol, 4-nitro
		4-Nitrophenol.
	100254	p-Dinitrobenzene.
	100414	Ethylbenzene. Styrene.
	100425	Benzene, chloromethyl
	1000000	Benzyl chloride.
	100470	Benzonitrile.
	100754	N-Nitrosopiperidine.
	101144	Piperidine, 1-nitroso Benzenamine, 4,4'-methylenebis(2-
	1011111	chloro
		4,4'-Methylenebis(2-chloroaniline).
	101553	Benzene, 1-bromo-4-phenexy
	103855	4-Bromophenyl phenyl ether. Phenylthiourea
	103033	Thiourea, phenyl
	105464	sec-Butvl acetate.
	105679	Phenol, 2,4-dimethyl
	400100	2,4-Dimethylphenol.
	106423	p-Benzene, dimethyl. p-Xylene.
	106445	p-Cresol.
		p-Cresylic acid.
	106467	Benzene, 1,4-dichloro p-Dichlorobenzene.
		1,4-Dichlorobenzene.
	106478	Benzenamine, 4-chloro
		p-Chloroaniline.
	106490	Benzenamine, 4-methyl-, p-Toluidine.
	106503	Phenylenediamine (para-isomer).
	106514	p-Benzoquinone.
		2,5-Cyclohexadiene-1,4-dione.
	106898	Epichlorohydrin. Oxirane, (chloromethyl)
	106934	Ethane, 1,2-dibromo
		Ethylene dibromide.
	107028	Acrolein.
	107051	Z-Fropona.
	107061	Allyl Cilionas.
		Ethylene dichloride.
		1,2-Dichloroethane.
	107108	n-Propylamine. 1-Propanamine.
	107120	
	101120	Propanenitrile.
	107131	Acrylonitrile.
	107150	2-Propenenitrile.
	107153	
	101 100	2-Propen-1-ol.
	107197	Propargyl alcohol.
		2-Propyn-1-ol. Acetaldehyde, chloro
	107200	

APPENDIX A-SEQUENTIAL CAS REGISTRY | APPENDIX A-SEQUENTIAL CAS REGISTRY | APPENDIX A-SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

	CASRN	Hazardous substance
		Methane, chloromethoxy
	107493	Diphosphoric acid, tetraethyl ester. Tetraethyl pyrophosphate.
	107926	Butyric acid. Vinyl acetate.
	108054	Vinyl acetate monomer.
	108101	Methyl isobutyl ketone. 4-Methyl-2-pentanone.
	108247	Acetic anhydride.
	108316	Maleic anhydride. 2,5-Furandione.
	108383	m-Benzene, dimethyl. m-Xylene.
	108394	m-Cresol.
	108463	m-Cresylic acid. Resorcinol.
		1,3-Benzenediol.
	108601	Dichloroisopropyl ether. Propane, 2,2'-oxybis[2-chloro
	108883	Benzene, methyl Toluene.
	108907	Benzene, chloro
	108941	Chlorobenzene. Cyclohexanone.
	108952	Benzene, hydroxy Phenol.
	108985	Benzenethiol.
	109068	Thiophenol. Pyridine, 2-methyl
		2-Picoline.
	109739 109773	Butylamine. Malononitrile.
	109897	Propanedinitrile. Diethylamine.
	109999	Furan, tetrahydro
	110009	Tetrahydrofuran.
		Furfuran. Maleic acid.
	110167 110178	Furnaric acid.
	110190 110758	iso-Butyl acetate. Ethene, 2-chloroethoxy
	110805	2-Chloroethyl vinyl ether. Ethanol, 2-ethoxy
		Ethylene glycol monoethyl ether.
	110827	Benzene, hexahydro Cyclohexane.
	110861 111444	Pyridine. Bis (2-chloroethyl) ether.
	111444	Dichloroethyl ether.
	111546	Ethane, 1,1'-oxybis[2-chloro Carbamodithioic acid, 1,2-ethanediylbis,
		salts & esters. Ethylenebisdithiocarbamic acid, salts &
		esters.
	111911	Bis(2-chloroethoxy) methane. Dichloromethoxy ethane.
		Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro
	115026	Azaserine.
	115297	L-Serine, diazoacetate (ester). Endosulfan.
	3000	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-
	- Faul	1,5,5a,6,9,9a- hexahydro-, 3-oxide.
	115322 116063	Aldicarb.
		Propanal, 2-methyl-2-(methylthio)-, 0 [(methylamino)carbonyl]oxime.
	117806	Dichlone.
	117817	Diethylhexyl phthalate.
		1,2-Benzenedicarboxylic acid, [bis(2
	117840	ethylhexyl)]ester. Di-n-octyl phthalate.
í		1,2-Benzenedicarboxylic acid, diocty

APPENDIX A-SEQUENTIAL CAS REGISTRY | NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CACON	
CASRN	Hazardous substance
11874	Benzene, hexachloro
11990	Hexachlorobenzene.
11990	04 [1,1'-Biphenyl]- 4,4'diamine,3,3'dimethoxy
44000	3,3'-Dimethoxybenzidine
11993	7 [1,1'Biphenyl]-4,4'-diamine,3,3'- dimethyl
40040	3,3'-Dimethylbenzidine.
12012 12058	
00000	1,3-Benzodioxole, 5-)1-propenyl)-
12082 12083	1 1,2,4-Trichlorobenzene.
	2,4-Dichlorophenol.
12114	2 Benzene, 1-methyl-2,4-dinitro 2,4-Dinitrotoluene.
12121	1 Pyrethrins.
12129	
12175	Malathion.
122098	
	Benzeneethanamine, alpha,alpha-di- methyl
122394	
122007	Hydrazine, 1,2-diphenyl 1,2-Diphenylhydrazine.
123331	Maleic hydrazide.
123626	3,6-Pyridazinedione, 1,2-dihydro Propionic anhydride.
123637	Paraldehyde.
123739	1,3,5-Trioxane, 2,4,6-trimethyl Crotonaldehyde.
40000	2-Butenal.
123864 123911	1 -0.7. 4001410.
	1,4-Dioxane.
123922 124049	iso-Amyl acetate. Adipic acid.
124403	Dimethylamine.
124414	Methanamine, N-methyl Sodium methylate.
124481	Chlorodibromomethane
126727	Tris(2,3-dibromopropyl) phosphate. 1-Propanol, 2,3-dibromo-, phosphate
100007	(3:1).
126987	Methacrylonitrile. 2-Propenenitrile, 2-methyl
126998	2-Chloro-1,3-butadiene.
127184	Ethene, tetrachioro Perchioroethylene.
	Tetrachloroethene.
127822	Tetrachloroethylene. Zinc phenolsulfonate.
129000	Pyrene.
130154	1,4-Naphthalenedione. 1,4-Naphthoquinone.
131113	Dimethyl phthalate.
THE S	1,2-Benzenedicarboxylic acid, dimethyl ester.
131748	Ammonium picrate.
131895	Phenol, 2,4,6-trinitro-, ammonium salt. Phenol, 2-cyclohexyl-4,6-dinitro
133062	2-Cyclohexyl-4,6-dinitrophenol.
134327	Captan. alpha-Naphthylamine.
137200	1-Naphthalenamine.
137268	Thioperoxydicarbonic diamide ([H2N)C(S)]2S2, tetramethyl-,
140000	Thiram.
140885	Ethyl acrylate. 2-Propenoic acid, ethyl ester.
141786	Acetic acid, ethyl ester.
The state of the s	Ethyl acetate.
142289	1.3-Dichloropropage
142289 142712 142847	1,3-Dichloropropane, Cupric acetate. Dipropylamine.

APPENDIX A—SEQUENTIAL CAS REGISTRY | APPENDIX A—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

SUBS	TANCES—Continued
CASRN	Hazardous substance
14333	
14350	Sodium cyanide Na(CN). Kepone.
	1,3,4-Metheno-2H-
	cyclobutal[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-
44570	decachloroctahydro
145/3	3 Endothall. 7-Oxabicyclo[2.2.1]heptane-2,3-
*******	dicarboxylic acid.
14882	3 L-Phenylalanine, 4-[bis(2-chloroethyl) aminol].
	Melphalan.
151508	Potassium cyanide. Potassium cyanide K(CN).
151564	4 Aziridine.
152169	Ethylenimine. Diphosphoramide, octamethyl
	Octamethylpyrophosphoramide.
156605	Ethene, 1,2-dichloro- (E). 1,2-Dichloroethylene.
189559	Benzo [rst]pentaphene.
191242	Dibenz[a,i]pyrene.
193395	Indeno(1,2,3-cd)pyrene
205002	1,10-(1,2-Phenylene)pyrene.
206440	Donas Established
207000	Fluoranthene.
207089	
218019	Chrysene.
225514	1,2-Benzphenanthrene. Benz[c]acridine.
297972	O,O-Diethyl O-pyrazinyl phosphoro-
	thioate. Phosphorothioic acid, O,O-diethyl O-
	pyrazinyl ester.
298000	Methyl parathion. Phosphorothioic acid, O,O-dimethyl O-
	(4-nitrophenyl) ester.
298022	Phorate. Phosphorodithioic acid, O,O-diethyl S-
000044	(ethylthio), methyl ester.
298044	Disulfoton. Phosphorodithioic acid, O,O-diethyl S-
-	[2-(ethylthio)ethyl]ester.
	Naled. Acetic acid, lead(2+) salt.
	Lead acetate.
	Hydrazine. Lasiocarpine.
	2-Butenoic acid, 2-methyl-, 7[[2.3-di-
	hydroxy-2-(1-methoxyethyl)-3- methyl-1-oxobutoxy]methyl]-
	2,3,5,7a-tetra-
1	hydro-1H-pyrrolizin-1-yl ester, [1S- [1alpha(Z),7(2S*,3R*),7aalpha]]
305033	Benzenebutanoic acid, 4-[bis(2-
	chloroethyl)amino] Chlorambucil.
309002	Aldrin.
Louis !	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-10-hexachloro-1,
THE NAME OF	4,4a,5,8,8a-hexahydro-(1alpha.4
311455	alpha,4abeta,5alpha,8alpha,8abeta) Diethyl-p-nitrophenyl phosphate.
	Phosphoric acid, diethyl 4-nitrophenyl
315184	ester. Mexacarbate.
319846	alpha—BHC.
5 C C C C C C C C C C C C C C C C C C C	beta—BHC. delta—BHC.
329715	2,5-Dinitrophenol.
330541	Diuron.
333415	Diazinon. Carbon oxyfluoride.
	CASRN 14333 14350 14350 14350 14350 14350 14350 14350 15150 15156 152163 156603 189558 191242 193395 205992 206440 207089 208968 218019 225514 297972 298000 298022 298044 300765 301042 302012 303344 305033 309002 311455

NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
	Carbonic diffuoride.
35757	
	Strychnidin-10-one, 2,3-dimethoxy-
46019	5 Cyanogen.
46573	Ethanedinitrile.
403/3	6 Isodrin. 1,4,5,8-Dimethanonaphthalene.
	1,2,3,4,10,10-hexachloro-
	1,4,4a,5,8,8a-hexahydro (1alpha
40200	4alpha,4abeta,5beta,8beta,8abeta)
49280	8 Auramine. Benzenamine, 4,4'-carbonimidoylbis
	(N,N-dimethyl(N,N-D,methyl-)
49403	1 Chlornaphazine.
	Naphthalenamine, N,N'-bis(2-chloro-
49672	ethyl) Benzenediamine, ar-methyl
10072	Toluenediamine.
50424	5 4-Aminopyridine.
F0400	4-Pyridinamine.
504609	
506616	1,3-Pentadiene. Argentate(1-), bis(cvano-C).
	Argentate(1-), bis(cyano-C)- ,potassium.
To a little	Potassium silver cyanide.
506649	- January and a second
506683	Silver cyanide Ag(CN). Cyanogen bromide.
000000	Cyanogen bromide (CN)Br.
506774	Cyanogen chloride.
500000	Cyanogen chloride (CN)CI.
506876	The state of the s
500907	ricoty bronning.
	Tetranitromethane.
510156	Benzeneacetic acid.4-chloro-alpha-
	(4-chlorophenyl)-alpha-hydroxy-,
	ethyl ester. Chlorobenzilate.
513495	
528290	o-Dinitrobenzene.
534521	Phenol, 2-methyl-4,6-dinitro
540738	4,6-Dinitro-o-cresol and salts Hydrazine, 1,2-dimethyl
-1100000	1,2-Dimethylhydrazine.
540885	tert-Butyl acetate.
541093 541537	Uranyl acetate. Dithiobiuret.
041007	Thioimidodicarbonic diamide
	[(H2N)C(S)]2NH.
541731	Benzene, 1,3-dichloro
	m-Dichlorobenzene.
542621	1,3-Dichlorobenzene. Barium cyanide.
542756	1-Propene, 1,3-dichloro
	1,3-Dichloropropene.
542767	Propanenitrile, 3-chloro
542881	3-Chloropropionitrile. Dichloromethyl ether.
	Methane, oxybis(chloro)
543908	Cadmium acetate.
544183	Cobaltous formate.
544923	Copper cyanide CuCN. Copper cyanide.
554847	m-Nitrophenol.
557197	Nickel cyanide.
EE7044	Nickel cyanide Ni(CN)2.
557211	Zinc cyanide.
557346	Zinc cyanide Zn(CN)2. Zinc acetate.
557415	Zinc formate.
563122	Ethion.
563688	Acetic acid, thallium(1+) salt.
573568	Thallium(I) acetate. 2,6-Dinitrophenol.
584849	Benzene, 1,3-diisocyanatomethyl
W. L. L. L. C.	Toluene diisocyanate.

APPENDIX A—SEQUENTIAL CAS REGISTRY Number List of CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN Hazardous substance 591082 Acetamide, N-(aminothioxomethyl)-. 1-Acetyl-2-thiourea. Calcium cyanide. 592018 Calcium cyanide Ca(CN)2. 592041 Mercuric cyanide. 592858 Mercuric thiocyanate. 592870 Lead thiocyanate. Methanesulfenyl chloride, trichloro-. 594423 Trichloromethanesulfenyl chloride. Bromoacetone. 598312 2-Propanone, 1-bromo-Benzene, 1-methyl-1,3-dinitro-. 606202 2,6-Dinitrotoluene HEXACHLOROCYCLOHEXANE (all 608731 isomers). 608935 Benzene, pentachloro-. Pentachlorobenzene. 609198 3.4.5-Trichlorophenol. 3.4-Dinitrotoluene. 610399 615532 Carbamic acid, methylnitroso-, ethyl ester. N-Nitroso-N-methylurethane. n-,2,3 Dichloropropanol. 616239 Di-n-propylnitrosamine. 621647 1-Propanamine, N-nitroso-N-propyl-. 624839 Methane, isocyanato-. Methyl isocyanate. 625161 tert-Amyl acetate. 626380 sec-Amyl acetate. 628637 Amyl acetate. Fulminic acid, mercury(2+)salt. 628864 Mercury fulminate. 630104 Selenourea. Ethane, 1,1,1,2-tetrachloro-. 630206 1,1,1,2-Tetrachloroethane. 631618 Ammonium acetate. Benzenamine, 2-methyl-, hydrochloride. 636215 o-Toluidine hydrochloride. 640197 Acetamide, 2-fluoro-Fluoroacetamide. N-Nitroso-N-methylurea. 684935 Urea, N-methyl-N-nitroso. Arsine, diethyl-. 692422 Diethylarsine. Arsonous dichloride, phenyl-. 696286 Dichlorophenylarsine 757584 Hexaethyl tetraphosphate. Tetraphosphoric acid, hexaethyl ester. N-Nitroso-N-ethylurea. 759739 Urea, N-ethyl-N-nitroso-. 1,4-Dichloro-2-butene 764410 2-Butene, 1,4-dichloro-. 765344 Glycidylaldehyde. Oxiranecarboxyaldehyde. 815827 Cupric tartrate. Benzenediamine, ar-methyl-, 823405 Toluenediamine. N-Nitrosodi-n-butylamine. 924163 1-Butanamine, N-butyl-N-nitroso-. 930552 N-Nitrosopyrrolidine. Pyrrolidine, 1-nitroso-933755 2,3,6-Trichlorophenol. 933788 2.3.5-Trichlorophenol. 959988 alpha-Endosulfan. 1024573 Heptachlor epoxide 1031078 Endosulfan sulfate. Chromic acetate. 1066304 1066337 Ammonium bicarbonate. 1072351 Lead stearate. 1111780 Ammonium carbamate. Ethanol, 2,2'-(nitrosoimino)bis-. 1116547 N-Nitrosodiethanolamine. 1,2-Oxathiolane, 2,2-dioxide 1120714 1,3-Propane sultone. Ferric ammonium citrate. 1185575

Dichlobenil.

1300716 | Xylenol.

APPENDIX A—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

	17/7/20/20/10/10	
	CASRN	Hazardous substance
1		A
	1303282	Arsenic oxide As205.
	1303328	Arsenic pentoxide. Arsenic disulfide.
	1303320	Arsenic trisulfide.
	1309644	Antimony trioxide.
	1310583	Potassium hydroxide.
	1310732	Sodium hydroxide.
	1314325	Thallic oxide.
	1014004	Thallium oxide Tl2O3. Vanadium oxide V2O5.
	1314621	Vanadium pentoxide.
	1314803	Phosphorus pentasulfide.
	1011000	Phosphorus sulfide.
		Sulfur phosphide.
	1314847	Zinc phosphide.
	1 130	Zinc phosphide Zn3P2, when present
	1314870	at concentrations greater than 10%. Lead sulfide.
	1314870	2,4,5-T amines.
	1319773	Cresol(s).
	1010113	Cresylic acid.
	THE MUSICAL PROPERTY.	Phenol, methyl
	1320189	2,4-D Ester.
	1321126	Nitrotoluene.
	1327522	Arsenic acid.
	1007500	Arsenic acid H3AsO4. Arsenic oxide As2O3.
	1327533	Arsenic trioxide.
	1330207	Benzene, dimethyl.
	1000201	Xylene (mixed).
	1332076	Zinc borate.
	1332214	Asbestos.
	1333831	Sodium bifluoride.
	1335326	Lead subacetate.
	1000010	Lead, bis(acetato-O)tetrahydroxytri.
	1336216	Ammonium hydroxide. Polychlorinated Biphenyls (PCBs).
	1336363	Methyl ethyl ketone peroxide.
	1330234	2-Butanone peroxide.
	1338245	Naphthenic acid.
	1341497	Ammonium bifluoride.
	1464535	1,2:3,4-Diepoxybutane.
	4500000	2,2'-Bioxirane.
	1563662 1615801	Carbofuran. Hydrazine, 1,2-diethyl
	1010001	N,N'-Diethylhydrazine.
	1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin
	O CONTROL STATE	(TCDD).
	1762954	Ammonium thiocyanate.
	1863634	Ammonium benzoate.
	1888717	Hexachloropropene.
	1918009	1-Propene, 1,1,2,3,3,3-hexachloro Dicamba.
	1928387	2,4-D Ester.
	1928478	- PRINTED TO TO THE PRINTED TO THE P
	1928616	2,4-D Ester.
	1929733	
	2008460	
	2032657	Mercaptodimethur. Carbamothioic acid, bis(1-methylethyl)-,
	2303164	S-(2,3-dichloro-2-propenyl) ester.
		Diallate.
	2312358	
	2545597	2,4,5-T esters.
	2763964	
		3(2H)-Isoxazolone, 5-(aminomethyl)
	0704700	5-(Aminomethyl)-3-isoxazolol.
	2764729	
	2921882 2944674	
	2971382	
	3012655	
	3164292	Ammonium tartrate.
	3165933	Benzenamine, 4-chloro-2-methyl-,
		hydrochloride.
	AMERICAN .	4-Chloro-o-toluidine, hydrochloride.

3251238 Cupric nitrate.

APPENDIX A—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance	9
3288582	O,O-Diethyl S-methyl dithiop	hosphate
-	Phosphorodithioic acid, O,O-d	iethyl
	S-methyl ester.	
3486359	Zinc carbonate.	
3689245	Tetraethyldithiopyrophosphate	
-	Thiodiphosphoric acid, tetrae	thyl este
3813147	2,4,5-T amines.	
4170303	Crotonaldehyde.	
	2-Butenal.	
4549400	N-Nitrosomethylvinylamine.	
	Vinylamine, N-methyl-N-nitros	0
5344821	Thiourea, (2-chlorophenyl)	
	1-(o-Chlorophenyl)thiourea.	
5893663	Cupric oxalate.	
5972736	Ammonium oxalate.	
6009707	Ammonium oxalate.	
6369966	2,4,5-T amines.	
6369977	2,4,5-T amines. Carbonic acid, dithallium(1+)	ealt
6533739	Thallium(I) carbonate.	Jan
7005700	4-Chlorophenyl phenyl ether.	
7005723	Endrin aldehyde.	
7421934	Lead stearate.	
7428480	Lead stearate.	
7439921	Mercury.	
7440020	Nickel.	
7440020	Silver.	
7440235	Sodium.	
7440280	Thallium.	
7440360	Antimony.	
7440382	Arsenic.	
7440417	Beryllium.	
NAME OF THE PARTY	Beryllium dust.	
7440439	Cadmium.	
7440473	Chromium.	
7440508	Copper.	
7440666	Zinc.	
7446084	Selenium dioxide.	
	Selenium oxide.	
7446142	Lead sulfate.	116
7446186	Sulfuric acid, dithallium(1+)	sait.
	Thallium(I) sulfate.	
7446277	Lead phosphate. Phosphoric acid, lead(2+)	calt 12
7447004	Cupric chloride.	sair le
7447394	Selenium sulfide.	
7488564	Selenium sulfide SeS2.	
7558794	Sodium phosphate, dibasic.	
7601549	Sodium phosphate, tribasic.	
7631892	Sodium arsenate.	
7631995	Sodium bisulfite.	
7632000	Sodium nitrite.	
7645252	Lead arsenate.	
7646857	Zinc chloride.	
7647010	The state of the s	
	Hydrogen chloride.	
7647189	Antimony pentachloride.	
7664382	Phosphoric acid.	
7664393	Hydrofluoric acid.	
	Hydrogen fluoride.	
7664417		
7664939		
7681494		
7681529		
7697372	CONTRACTOR OF THE PARTY OF THE	
7699458		
7705080		
7718549		
7719122		
7720787		
7722647		
7723140		
7733020	The state of the s	
7738945 7758294		
7758943		

APPENDIX A—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
775898	7 Cupric sulfate.
776188	
777306	
777511	
777839	4 Arsenic acid.
	Arsenic acid H3As04.
777844	
777850	
777854 777986	The state of the s
777988	- I will be a second of the se
778241	- I - I I I I I I I I I I I I I I I I I
7782493	
778250	
7782630	The state of the s
7782823	Sodium selenite.
7782867	The same of the case,
7783008	Total Color
7783064	
7783359	Hydrogen sulfide H2S.
7783462	The same surface.
7783495	
7783508	
7783564	The majority of
7784341	Arsenic trichloride.
7784409	Lead arsenate.
7784410	The second of th
7784465	- Committee Country
7785844	The state of the s
7786347	The state of the s
7786814	Nickel sulfate.
7787475 7787497	Beryllium chloride.
7787555	Beryllium fluoride.
7788989	Beryllium nitrate. Ammonium chromate,
7789006	Potassium chromate,
7789062	Strontium chromate.
7789095	Ammonium bichromate.
7789426	Cadmium bromide.
7789437	Cobaltous bromide.
7789619	Antimony tribromide.
7790945	Chlorosulfonic acid.
7791120	Thallium chloride TICI.
7803512	Thallium(!) chloride. Phosphine.
7803556	Ammonium vanadate.
	Vanadic acid, ammonium salt.
8001352	Camphene, octachloro-
	Toxaphene.
8001589	Creosote.
8003198	Dichloropropane—Dichloropropene
8000047	(mixture).
8003347	Pyrethrins.
8014957 10022705	Sulfuric acid.
10025873	Sodium hypochlorite. Phosphorus oxychloride.
10025919	Antimony trichloride.
	Zirconium tetrachloride.
10028225	Ferric sulfate.
	Sulfuric acid, dithallium(1+) salt.
10031591	
10031591	Thallium(I) sulfate.
10031591	Thallium(I) sulfate. Sodium phosphate, dibasic.
10031591 10039324 10043013	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate.
10031591 10039324 10043013 10045893	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate.
10031591 10039324 10043013 10045893 10045940	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate, Ferrous ammonium sulfate. Mercuric nitrate.
10031591 10039324 10043013 10045893 10045940 10049055	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate, Mercuric nitrate. Chromous chloride.
10031591 10039324 10043013 10045893 10045940 10049055 10099748	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate, Mercuric nitrate. Chromous chloride. Lead nitrate.
10031591 10039324 10043013 10045893 10045940 10049055 10099748 10101538	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate. Mercuric nitrate. Chromous chloride. Lead nitrate. Chromic sulfate.
10031591 10039324 10043013 10045893 10045940 10049055 10099748 10101538 10101630	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate. Mercuric nitrate. Chromous chloride. Lead nitrate. Chromic sulfate. Lead lodide.
10031591 10039324 10043013 10045893 10045940 10049055 10099748 10101538	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate. Mercuric nitrate. Chromous chloride. Lead nitrate. Chromic sulfate. Lead iodide. Sodium phosphate, tribasic.
10031591 10039324 10043013 10045893 10045940 10049055 10099748 10101538 10101630 10101890	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate, Ferrous ammonium sulfate. Mercuric nitrate. Chromous chloride. Lead nitrate. Chromic sulfate. Lead lodide. Sodium phosphate, tribasic. Uranyl nitrate.
10039324 10043013 10045940 10045940 10049055 10099748 10101538 10101630 10101630 10101890 10102064	Thaflium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate. Mercuric nitrate. Chromous chloride. Lead nitrate. Chromic sulfate, Lead lodide. Sodium phosphate, tribasic. Uranyl nitrate. Sodium selenite. Nitric oxide.
10031591 10039324 10043013 10045893 10045940 10049055 10099748 10101538 10101630 10101890 10102188 10102188 10102439	Thallium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate. Mercuric nitrate. Chromous chloride. Lead nitrate. Chromic sulfate. Lead iodide. Sodium phosphate, tribasic. Uranyl nitrate. Sodium selenite. Nitric oxide. Nitrogen oxide NO.
10031591 10039324 10043013 10045993 10045940 10049055 10099748 10101538 10101630 10101630 10102064 10102188	Thaflium(I) sulfate. Sodium phosphate, dibasic. Aluminum sulfate. Ferrous ammonium sulfate. Mercuric nitrate. Chromous chloride. Lead nitrate. Chromic sulfate, Lead lodide. Sodium phosphate, tribasic. Uranyl nitrate. Sodium selenite. Nitric oxide.

APPENDIX A—SEQUENTIAL CAS REGISTRY | Number List of CERCLA HAZARDOUS | SUBSTANCES—Continued

ı	SOBSTANCES—Continued			
CASRN		Hazardous substance		
l				
١	1010245	The main and and the state of t		
l	10102484	Thallium(I) nitrate. Lead arsenate.		
l	10108642	2 Cadmium chloride.		
l	10124502			
	10124568			
	10192300	Ammonium bisulfite.		
ı	10196040	Ammonium sulfite.		
ı	10361894			
į	10360297	1 - spile suitato, diffitionatou.		
	10421484			
	10544728	The second secon		
	10583019	Nitrogen oxide NO2. Sodium bichromate.		
	11096825	Aroclor 1260.		
		Polychlorinated Biphenyls		
	11097691	(PCBs).		
	11007001	Aroclor 1254. Polychlorinated Biphenyls		
		(PCBs).		
	11104282			
		Polychlorinated Biphenyls (PCBs).		
	11115745			
	11141165	Aroclor 1232.		
		Polychlorinated Biphenyls (PCBs).		
	12002038	Cupric acetoarsenite.		
	12039520	Selenious acid, dithallium(1+) salt.		
	12054407	Thallium selenite.		
	12054487	Nickel hydroxide, Ammonium fluoride,		
	12125029	Ammonium chloride.		
	12135761	Ammonium sulfide.		
	12672296	Aroclor 1248. Polychlorinated Biphenyls		
		(PCBs).		
	12674112	Aroclor 1016.		
		Polychlorinated Biphenyls (PCBs).		
	12771083	Sulfur monochloride.		
	13463393	Nickel carbonyl.		
	13560991	Nickel carbonyl Ni(CO)4, (T-4) 2,4,5-T salts.		
	13597994	Beryllium nitrate.		
	13746899	Zirconium nitrate.		
	13765190	Chromic acid Macros and in the control of the contr		
	13814965	Chromic acid H2CrO4, calcium salt. Lead fluoborate.		
	13826830	Ammonium fluoborate.		
	13952846	sec-Butylamine.		
	14216752	Cobaltous sulfamate. Nickel nitrate.		
1	14258492	Ammonium oxalate.		
	14307358 14307438	Lithium chromate.		
	14639975	Ammonium tartrate. Zinc ammonium chloride.		
1	4639986	Zinc ammonium chloride.		
	4644612	Zirconium sulfate.		
	5739807	Nickel ammonium sulfate. Lead sulfate.		
1	5950660	2,3,4-Trichlorophenol.		
	6721805	Sodium hydrosulfide.		
1	8752775	Ethanimidothioic acid, N-[[(methyl- amino)carbonyl] oxy]-, methyl		
	19.8 19.00	ester.		
	2074740	Methomyl.		
	6871719 6919190	Zinc silicofluoride. Ammonium silicofluoride.		
	6923958	Zirconium potassium fluoride.		
1	8883664	D-Glucose, 2-deoxy-2-[[(methylnitro-		
	1	soamino)-carbonyl]amino]		
		Glucopyranose, 2-deoxy-2-(3-methyl-3- nitrosoureido)		
		Streptozotocin.		

APPENDIX A—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

12	AND DESCRIPTION OF REAL PROPERTY.
CASRN	Hazardous substance
1 1 1 1 1 1 1	USSILWING TO THE
20816120	
	Osmium tetroxide.
20830813	
	5,12-Naphthacenedione, 8-acetyl-10-
	[3-amino-2,3,6-trideoxy-alpha-
	L-lyxo-hexopyranosyl)oxy1-7,8,9,10-
	tetrahydro-6,8,11-trihydroxy-1-
20859738	methoxy-,(8S-cis)
23950585	a principal de la companya de la com
2000000	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)
	Pronamide.
25154545	
25154556	
25155300	
25167822	Trichlorophenol.
25168154	2,4,5-T esters.
25168267	2,4-D Ester.
25321146	Dinitrotoluene.
25321226	Dichlorobenzene.
25376458	Benzenediamine, ar-methyl
	Toluenediamine.
25550587	Dinitrophenol.
26264062	Calcium dodecylbenzenesulfonate.
26471625	Benzene, 1,3-diisocyanatomethyl
26628228	Toluene diisocyanate
26638197	Sodium azide.
26952238	Dichloropropene.
27176870	Dodecylbenzenesulfonic acid.
27323417	Triethanolamine dodecylbenzene sul-
	fonate.
27774136	Vanadyl sulfate.
28300745	Antimony potassium tartrate.
30525894	Paraformaldehyde.
32534955	2,4,5-TP esters.
33213659	beta - Endosulfan.
36478769	Uranyl nitrate.
37211055	Nickel chloride.
39196184	Thiofanox
	2-Butanone, 3,3-dimethyl-1-(methyl-
	thio)-, O[(methylamino)carbonyl]
42504461	oxime.
42004461	Isopropanolamine dodecylbenzenesul-
52628258	fonate.
52652592	Zinc ammonium chloride. Lead stearate.
52740166	Calcium arsenite.
53467111	2,4-D Ester.
53469219	Aroclor 1242.
The second second	Polychlorinated Biphenyls
	(PCBs)
55488874	Ferric ammonium oxalate.
56189094	Lead stearate.
61792072	2,4,5-T esters.

3. Section 302.6 is amended by revising paragraph (b)(1) and the parenthetical phrase at the end of the section to read as follows:

§ 302.6 Notification requirements.

- (b) Releases of mixtures or solutions (including hazardous waste streams) of
- (1) Hazardous substances, except for radionuclides, are subject to the following notification requirements:
- (i) if the quantity of all of the hazardous constituent(s) of the mixture or solution is known, notification is

required where an RQ or more of any hazardous constituent is released; or

(ii) if the quantity of one or more of the hazardous constituent(s) of the mixture or solution is unknown, notification is required where the total amount of the mixture or solution released equals or exceeds the RQ for the hazardous constituent with the lowest RQ.

(Approved by the Office of Management and Budget under control numbers 2050–0046 and 2115–0137)

PART 116—LIST OF HAZARDOUS SUBSTANCES

1. The authority citation for Part 116 continues to read as follows:

Authority: 33 U.S.C. 1321 and 1361.

§ 116.4 [Amended]

2. Section 116.4 is amended by removing the entire entry for "Ammonium thiosulfate, CASRN 7783188," and by removing the term "Kelthane," CASRN 115322, and inserting in its place the term "Dicofol" in the list of hazardous substances in both Table 116.4A and Table 116.4B.

PART 117—DESIGNATION, REPORTABLE QUANTITIES, AND NOTIFICATION

1. The authority citation for Part 117 continues to read as follows:

Authority: 33 U.S.C. 1321 and 1361, and Executive Order 11735.

§ 117.3 [Amended]

2. Section 117.3 is amended by revising Table 117.3 to read as set forth below. Included in these amendments to Table 117.3 is the removal of the entry for "ammonium thiosulfate," CASRN 7783188, as well as the removal of the term "Kelthane," CASRN 115322, and the insertion in its place of the term "Dicofol." The note preceding Table 117.3 is republished without change.

Note—The first number under the column headed "RQ" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column headed "Category" which lists the code letter "X," "A," "B," "C," and "D" associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively.

TABLE 117.3.—REPORTABLE QUANTITIES
OF HAZARDOUS SUBSTANCES DESIGNATED PURSUANT TO SECTION 311 OF
THE CLEAN WATER ACT

[Note: The first number under the column headed "RQ" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column headed "Category" which lists the code letters "X," "A," "B," "C," and "D" associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively]

Trace Controlled States	AND THE REAL PROPERTY.	I according
Material	Category	RQ in pounds (kilograms)
Acetaldehyde	C	1,000 (454)
Acetic acid		5,000 (2,270)
Acetic anhydride		5,000 (2,270)
Acetone cyanohydrin		10 (4.54)
Acetyl bromide	D	5,000 (2,270)
Acetyl chloride		5,000 (2,270)
Acrolein		1 (0.454)
Acrylonitrile		100 (45.4)
		5,000 (2,270)
Adipic acid		1 (0.454)
Aldrin	7.7	11/2/2017/02/2017
Allyl alcohol		100 (45.4)
Illyl chloride		1,000 (454)
Numinum sulfate	D	5,000 (2,270)
Ammonia	В	100 (45.4)
Ammonium acetate	D	5,000 (2,270)
Ammonium benzoate	D	5,000 (2,270)
Ammonium	D	5,000 (2,270)
bicarbonate.	200	
Ammonium	A	10 (4.54)
bichromate.	1000	1000
	В	100 (45.4)
Ammonium bifluoride		
Ammonium bisulfite	D	5,000 (2,270)
Ammonium	D	5,000 (2,270)
carbamate.	1	
Ammonium carbonate.	D	5,000 (2,270)
Ammonium chloride	D	5,000 (2,270)
Ammonium chromate	A	10 (4.54)
Ammonium citrate	D	5,000 (2,270)
dibasic.		
Ammonium fluoborate .	D	5,000 (2,270)
Ammonium fluoride	\$135/dd	100 (45.4).
	G0	1,000 (454)
Ammonium hydroxide		
Ammonium oxalate		5,000 (2,270)
Ammonium	C	1,000 (454)
silicofluoride.	200	E LA CONTRACTOR DE LA C
Ammonium sulfamate		5,000 (2,270)
Ammonium sulfide	8	100 (45.4)
Ammonium sulfite	D	5,000 (2,270)
Ammonium tartrate	D	5,000 (2,270)
Ammonium	D	5,000 (2,270)
thiocyanate.	The second second	
Amyl acetate	D	5,000 (2,270)
A Control of the Cont	D	5,000 (2,270)
Aniline	N.T.C.	1,000 (454)
Antimony	C	1,000 (454)
pentachloride.		100 445 1
Antimony potassium	8	100 (45.4)
tartrate.		
Antimony tribromide	C	1,000 (454)
Antimony trichloride		1,000 (454)
Antimony trifluoride		1,000 (454)
Antimony trioxide		1,000 (454)
Arsenic disulfide	×	1 (0.454)
	Ŷ	1 (0.454)
Arsenic pentoxide	Ŷ	1 (0.454)
Arsenic trichloride	X	
Arsenic trioxide		1 (0.454)
Arsenic trisulfide		1 (0.454)
Barium cyanide		10 (4.54)
Benzene		10 (4.54)
Benzoic acid	D	5,000 (2,270)
Benzonitrile	D	5,000 (2,270)
Benzoyl chloride		1,000 (454)
Benzyl chloride		100 (45.4)
Beryllium chloride		1 (0.454)
		1 (0.454)
Beryllium fluoride		1 (0.454)
Beryllium nitrate		
Butyl acetate		5,000 (2,270)
Putulamina	I C	1 000 (454)

Butylamine.

TABLE 117.3.—REPORTABLE QUANTITIES
OF HAZARDOUS SUBSTANCES DESIGNATED PURSUANT TO SECTION 311 OF
THE CLEAN WATER ACT—Continued

[Note: The first number under the column headed "RQ" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column headed "Category" which lists the code letters "X," "A," "B," "C," and "D" associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively]

Material	Category	RQ in pounds (kilograms)
n-Butyl phthalate	A	10 (4.54)
Butyric acid		5,000 (2,270)
Cadmium acetate		10 (4.54)
Cadmium bromide		10 (4.54)
Cadmium chloride		10 (4.54)
Calcium arsenate		1 (0.454)
Calcium arsenite		1 (0.454)
Calcium carbide	A	10 (4.54)
Calcium chromate	A	10 (4.54)
Calcium cyanide	A	10 (4.54)
Calcium	C	1,000 (454)
dodecylbenzene-		
sulfonate.		10/15/1
Calcium hypochlorite		10 (4.54)
Captan		10 (4.54)
Carbaryl		100 (45.4)
Carbofuran		10 (4.54)
Carbon disulfide		100 (45.4)
Carbon tetrachloride	1201	10 (4.54)
Chloridane	200	10 (4.54)
Chlorine	201	100 (45.4)
Chloroform		10 (4.54)
Chlorosulfonic acid	220	1,000 (454)
Chlorpyrifos		1 (0.454)
Chromic acetate	1000	1,000 (454)
Chromic acid	7 0	10 (4.54)
Chromic sulfate		1,000 (454)
Chromous chloride		1,000 (454)
Cobaltous bromide	C	1,000 (454)
Cobaltous formate	C	1,000 (454)
Cobaltous sulfamate	C	1,000 (454)
Coumaphos		10 (4.54)
Cresol		1,000 (454)
Crotonaldehyde		100 (45.4)
Cupric acetate		1 (0.454)
Cupric acetoarsenite Cupric chloride	1000	10 (4.54)
Cupric nitrate	227	100 (45.4)
Cupric oxalate	2213	100 (45.4)
Cupric sulfate	192	10 (4.54)
Cupric sulfate,	В	100 (45.4)
ammoniated.	-	A STATE OF THE PARTY OF THE PAR
Cupric tartrate	В	100 (45.4)
Cyanogen chloride	A	10 (4.54)
Cyclohexane		1,000 (454)
2,4-D Acid		100 (45.4)
2,4-D Esters		100 (45.4)
DDT		1 (0.454)
Diazinon	10000	1 (0.454)
Dicamba		1,000 (454)
Dichlobenil	X	1 (0.454)
Dichlore	B	100 (45.4)
Dichloropropane	10000	1,000 (454)
Dichloropropene	1000	100 (45.4)
Dichloropropene-	В	100 (45.4)
Dichloropropane		
(mixture).	100	The second
2,2-Dichloropropionic	D	5,000 (2,270)
acid.	1	
Dichlorvos	. A	10 (4.54)
Dicofol		10 (4.54)
Dieldrin		1 (0.454)
Diethylamine		100 (45.4)

RQ in pounds (kilograms)

1,000 (454)

1,000 (454) 5,000 (2,270) 1,000 (454) 100 (45.4) 1,000 (454) 100 (45.4) 5,000 (2,270) 5,000 (2,270) 100 (45.4) 10 (4.54) 10 (4.54) 1,000 (454) 1,000 (454) 1,000 (454) 1,000 (454) 5,000 (2,270) 1,000 (454) 1,000 (454) 1 (0.454) 100 (45.4) 100 (45.4) 10 (4.54) 10 (4.54) 100 (45.4) 1,000 (454) 1 (0.454) 100 (45.4) 100 (45.4) 10 (4.54) 1,000 (454)

5,000 (2,270) 100 (45.4) 100 (45.4) 100 (45.4) 1,000 (454) 1,000 (454) 5.000 (2.270) 100 (45.4) 1.000 (454) 1,000 (454) 1,000 (454) 1,000 (454) 1,000 (454) 1,000 (454) 1,000 (454) 1,000 (454) 10 (4.54) 1,000 (454)

1,000 (454) 1,000 (454) 1,000 (454) 5,000 (2,270) 100 (45.4) 5,000 (2,270) 1,000 (454)

5,000 (2,270) 1,000 (454)

TABLE 117.3.—REPORTABLE QUANTITIES
OF HAZARDOUS SUBSTANCES DESIGNATED PURSUANT TO SECTION 311 OF
THE CLEAN WATER ACT—Continued

[Note: The first number under the column headed "RQ" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column headed "Category" which lists the code letters "X," "A," "B," "C," and "D" associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively]

Material	Category	RQ in pounds (kilograms)
Dinitrobenzene (mixed).	В	100 (45.4)
Dinitrophenol	. A	10 (45.4)
Dinitrotoluene	. A	10 (4.54)
Diquat	. C	1,000 (454)
Disulfoton	. X	1 (0.454)
Diuron	. B	100 (45.4)
Dodecylbenzenesul- fonic acid.	C	1,000 (454)
Endosulfan		
Endrin		1 (0.454)
Epichlorohydna		1 (0.454)
Ethion	A	100 (45.4) 10 (4.54)
Ethylbenzene	C	1,000 (454)
Ethylenediamine	D	5,000 (2,270)
Ethylenediamine-	D	5,000 (2,270)
tetraacetic acid		
(EDTA).		
Ethylene dibromide	X	1 (0.454)
Ethylene dichloride Ferric ammonium		100 (45.4)
citrate.	C	1,000 (454)
Ferric ammonium	C	1 000 (454)
oxalate.		1,000 (454)
Ferric chloride	C	1,000 (454)
Ferric fluoride	В	100 (45.4)
Ferric nitrate	C	1,000 (454)
Ferric sulfate	C	1,000 (454)
Ferrous ammonium	C	1,000 (454)
sulfate.		The state of the s
Ferrous chloride	B	100 (45.4)
Ferrous sulfate Formaldehyde	C	1,000 (454)
Formic acid	В	100 (45.4)
Fumaric acid	D	5,000 (2,270) 5,000 (2,270)
Furfural	D	5,000 (2,270)
Guthion	X	1 (0.454)
Heptachlor	X	1 (0.454)
Hexachlorocyclopen-	A	10 (4.54)
tadiene.		0.00
Hydrochloric acid	D	5,000 (2,270)
Hydrofluoric acid Hydrogen cyanide	В	100 (45.4)
Hydrogen sulfide	A	10 (4.54)
Isoprene	B	100 (45.4)
Isopropanolamine	C	1,000 (45.4)
dodecylbenzene-	10000	1,000 (454)
sulfonate.		
Kepone	X	1 (0.454)
Lead acetate	D	5,000 (2,270)
Lead arsenate	X	1 (0.454)
Lead fluoborate	B	100 (45.4)
Lead fluoride		100 (45.4)
Lead iodide	B	100 (45.4) 100 (45.4)
Lead nitrate	В	100 (45.4)
Lead stearate	D	5,000 (2,270)
Lead sulfate	B	100 (45.4)
Lead sulfide	D	5,000 (2,270)
Lead thiocyanate		100 (45.4)
Lindane Lithium chromate	X	1 (0.454)
Malathion	A B	10 (4.54)
Maleic acid	D	100 (45.4)
Maleic anhydride	D	5,000 (2,270) 5,000 (2,270)
Mercaptodimethur	A	10 (4.54)
Mercuric cyanide	X	1 (0.454)

TABLE 117.3.—REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES DESIGNATED PURSUANT TO SECTION 311 OF THE CLEAN WATER ACT—Continued

[Note: The first number under the column headed "RQ" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column headed "Category" which lists the code letters "X." "A," "B." "C," and "D" associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively]

Material	Category	RQ in pounds (kilograms)	Material	Categor
		(Kilogranis)		
Mercuric nitrate	A	10 (4.54)	Sodium	C
Mercuric sulfate	A	10 (4.54)	dodecylbenzene-	
Mercuric thiocyanate	A	10 (4.54)	sulfonate.	150 A 10
Mercurous nitrate	A	10 (4.54)	Sodium fluoride	C
Methoxychlor	X	1 (0.454)	Sodium hydrosulfide	
Methyl mercaptan	В	100 (45.4)	Sodium hydroxide	
Methyl methacrylate	C	1,000 (454)	Sodium hypochlorite	
Methyl parathion	В	100 (45.4)	Sodium methylate	
Mevinphos	A	10 (4.54)	Sodium nitrite	
Mexacarbate	C	1,000 (454)	Sodium phosphate,	D
Monoethylamine	В	100 (45.4)	dibasic.	
Monomethylamine	В	100 (45.4)	Sodium phosphate,	D
Valed	A	10 (4.54)	tribasic.	
Vaphthalene		100 (45.4)	Sodium selenite	В
Naphthenic acid		100 (45.4)	Strontium chromate	A
Nickel ammonium	В	100 (45.4)	Strychnine	A
sulfate.			Styrene	C
Nickel chloride	В	100 (45.4)	Sulfuric acid	C
Nickel hydroxide	A	10 (4.54)	Sulfur monochloride	C
Vickel nitrate	В	100 (45.4)	2,4,5-T acid	C
Vickel sulfate	В	100 (45.4)	2,4,5-T amines	D
Vitric acid		1,000 (454)	2,4,5-T esters	C
Nitrobenzene	C	1,000 (454)	2.4.5-T salts	C
litrogen dioxide	A	10 (4.54)	TDE	X
litrophenol (mixed)	В	100 (45.4)	2,4,5-TP acid	В
litrotoluene	C	1,000 (454)	2,4,5-TP acid esters	
araformaldehyde	C	1,000 (454)	Tetraethyl lead	A
arathion	A	10 (4.54)	Tetraethyl	A
entachlorophenol	A	10 (4.54)	pyrophosphate.	
henol	C	1,000 (454)	Thallium sulfate	В
hosgene	A	10 (4.54)	Toluene	C
hosphoric acid	D	5,000 (2,270)	Toxaphene	
hosphorus		1 (0.454)	Trichlorfon	
	C	1,000 (454)	Trichloroethylene	В
oxychloride.	_		Trichlorophenol	A
	В	100 (45.4)	Triethanolamine	C
pentasulfide.			dodacylbenzene-	
	C	1,000 (454)	sulfonate.	
trichloride.		2 10 10 10	Triethylamine	D
	X	1 (0.454)	Trimethylamine	В
biphenyls.			Uranyl acetate	В
AND THE PROPERTY OF THE PROPER	X	1 (0.454)	Uranyl nitrate	
SECURIOR SEC	X	1 (0.454)	Vanadium pentoxide	
bichromate.	A	10 (4.54)	Vanadyl sulfate	C
otassium chromate		40 (4 50)	Vinyl acetate	
otassium cyanide	A .	10 (4.54)	Vinylidene chloride	
		10 (4.54)		C
	C B	1,000 (454)	Xylenol	
permanganate.	0	100 (45.4)		C
The second secon	A .	101150		C
ropionic acid	A	10 (4.54)	chloride.	MARKET
ropionic anhydride		5,000 (2,270)		C
ropylene oxide		5,000 (2,270)	Zinc bromide	
yrethrins		100 (45.4)		C
uinoline	0	1 (0.454)	Zinc chloride	C
esorcinol		5,000 (2,270) 5,000 (2,270)	Zinc cyanide	
elenium oxide		Part School Control of the Control o	Zinc fluoride	C
lver nitrate		10 (4.54) 1 (0.454)	Zinc formate	0
odium	A	The second secon	Zinc hydrosulfite	0
odium arsenate		10 (4.54)	Zinc nitrate	
odium arsenite		1 (0.454)	Zinc phenolsulfonate	
odium bichromate	1	1 (0.454)	Zinc phosphide	
odium bifluoride		10 (4.54)	Zinc silicofluoride	
Julian Diliania		100 (45.4)		C
odum higuitite				
odium bisulfite		5,000 (2,270)	AND THE RESERVE TO THE PROPERTY OF THE PROPERT	D

TABLE 117.3.—REPORTABLE QUANTITIES
OF HAZARDOUS SUBSTANCES DESIGNATED PURSUANT TO SECTION 311 OF
THE CLEAN WATER ACT—Continued

[Note: The first number under the column headed "RO" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column headed "Category" which lists the code letters "X," "A," "B," "C," and "D" associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively]

TABLE 117.3.—REPORTABLE QUANTITIES
OF HAZARDOUS SUBSTANCES DESIGNATED PURSUANT TO SECTION 311 OF
THE CLEAN WATER ACT—Continued

[Note: The first number under the column headed "RO" is the reportable quantity in pounds. The number in parentheses is the metric equivalent in kilograms. For convenience, the table contains a column headed "Category" which lists the code letters "X," "A," "B," "C," and "D" associated with reportable quantities of 1, 10, 100, 1000, and 5000 pounds, respectively]

Material	Category	RQ in pounds (kilograms)
Zirconium sulfate Zirconium tetrachloride.	D	5,000 (2,270) 5,000 (2,270)

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BILLING CODE 6560-50-M